



SRC CLIMATE REFERENCE STATION DAILY DATA REPORT

CONSERVATION LEARNING CENTRE

Saskatchewan 53.03°N 105.77°W Estab. 2011

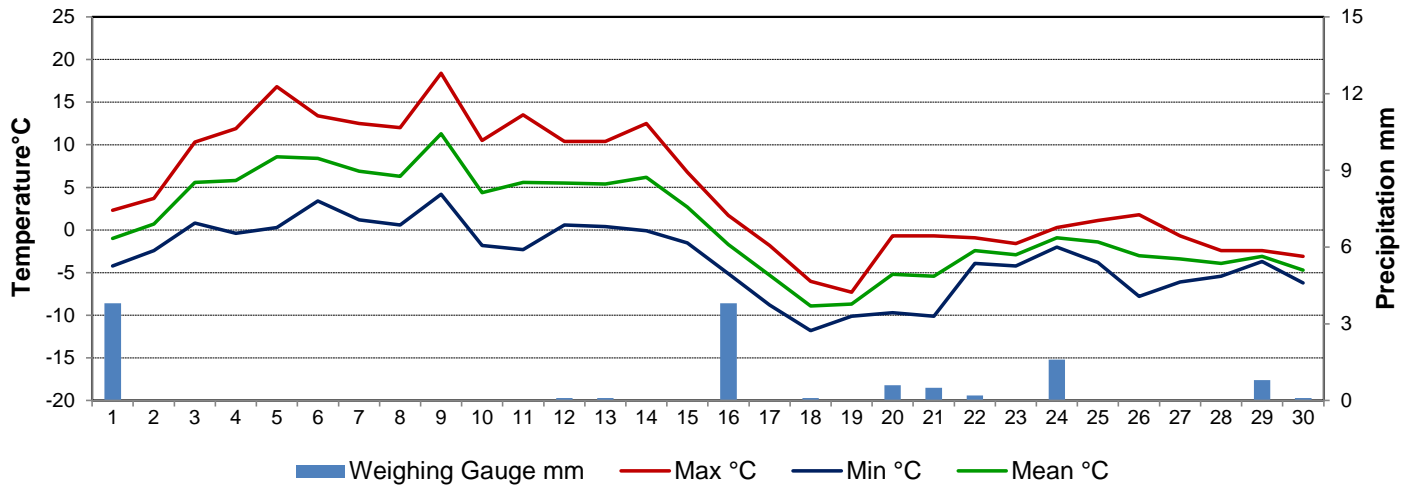
Preliminary **November 2016**

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	2.3	-4.2	-1.0	0.0	19.0	0.0	3.8		-	95	80	1014	1001
2	3.7	-2.4	0.7	0.0	17.3	0.0	0.0		-	93	80	1018	1014
3	10.3	0.8	5.6	0.6	12.4	0.0	0.0		-	94	65	1018	1014
4	11.9	-0.4	5.8	0.8	12.2	0.0	0.0		-	91	53	1018	1013
5	16.8	0.3	8.6	3.6	9.4	0.0	0.0		-	91	32	1013	1003
6	13.4	3.4	8.4	3.4	9.6	0.0	0.0		-	85	43	1007	1001
7	12.5	1.2	6.9	1.9	11.1	0.0	0.0		-	92	40	1022	1007
8	12.0	0.6	6.3	1.3	11.7	0.0	0.0		-	92	60	1022	1010
9	18.4	4.2	11.3	6.3	6.7	0.0	0.0		-	82	40	1015	1007
10	10.5	-1.8	4.4	0.0	13.6	0.0	0.0		-	92	46	1027	1016
11	13.5	-2.3	5.6	0.6	12.4	0.0	0.0		-	91	44	1026	1007
12	10.4	0.6	5.5	0.5	12.5	0.0	0.1		-	91	64	1008	997
13	10.4	0.4	5.4	0.4	12.6	0.0	0.1		-	92	48	1010	998
14	12.5	-0.1	6.2	1.2	11.8	0.0	0.0		-	93	50	1008	998
15	6.8	-1.5	2.7	0.0	15.3	0.0	0.0		-	81	46	1008	1003
16	1.7	-5.1	-1.7	0.0	19.7	0.0	3.8		1	96	65	1012	1000
17	-1.8	-8.8	-5.3	0.0	23.3	0.0	0.0		-	94	70	1025	1012
18	-6.0	-11.8	-8.9	0.0	26.9	0.0	0.1		-	88	63	1029	1025
19	-7.3	-10.1	-8.7	0.0	26.7	0.0	0.0		-	88	77	1027	1017
20	-0.7	-9.7	-5.2	0.0	23.2	0.0	0.6		-	91	74	1016	1011
21	-0.7	-10.1	-5.4	0.0	23.4	0.0	0.5		-	94	85	1011	1005
22	-0.9	-3.9	-2.4	0.0	20.4	0.0	0.2		-	95	90	1019	1007
23	-1.6	-4.2	-2.9	0.0	20.9	0.0	0.0		-	92	85	1019	1015
24	0.3	-2.0	-0.9	0.0	18.9	0.0	1.6		-	94	84	1015	1014
25	1.1	-3.8	-1.4	0.0	19.4	0.0	0.0		-	95	75	1015	1005
26	1.8	-7.8	-3.0	0.0	21.0	0.0	0.0		-	93	68	1013	1003
27	-0.7	-6.1	-3.4	0.0	21.4	0.0	0.0		-	92	77	1003	992
28	-2.4	-5.4	-3.9	0.0	21.9	0.0	0.0		-	95	85	1002	992
29	-2.4	-3.7	-3.1	0.0	21.1	0.0	0.8		-	90	77	1014	1003
30	-3.1	-6.2	-4.7	0.0	22.7	0.0	0.1		-	94	77	1014	1013
Total				20.6	518.5	0.0	11.7						
Avg	4.8	-3.3	0.7				370.3	Cumulative ppt					
Extreme	18.4	-11.8					3.8		1	96	32	1029	992
Date	9	18					1		16	16	5	18	27

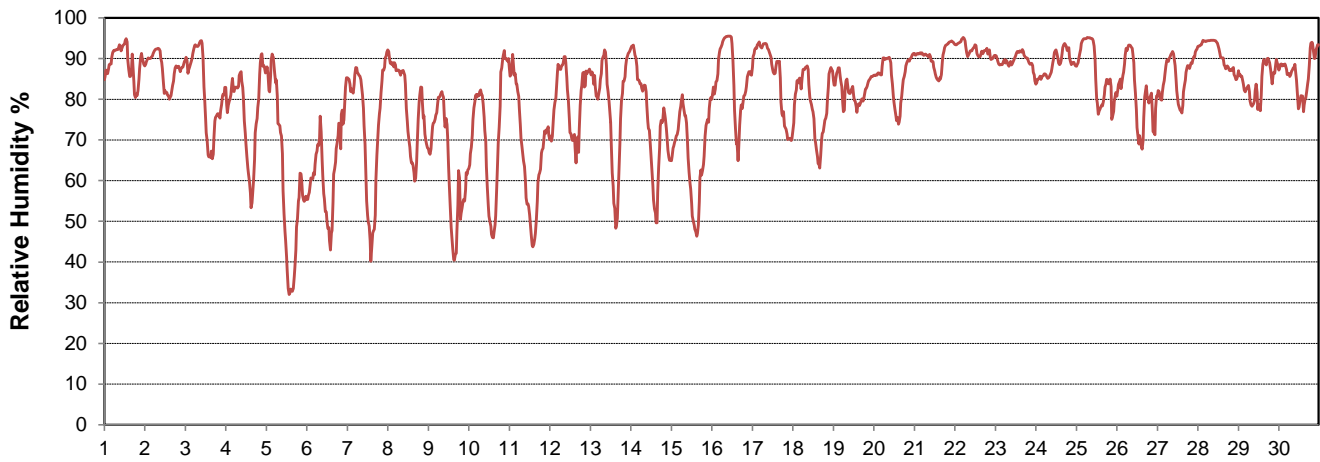
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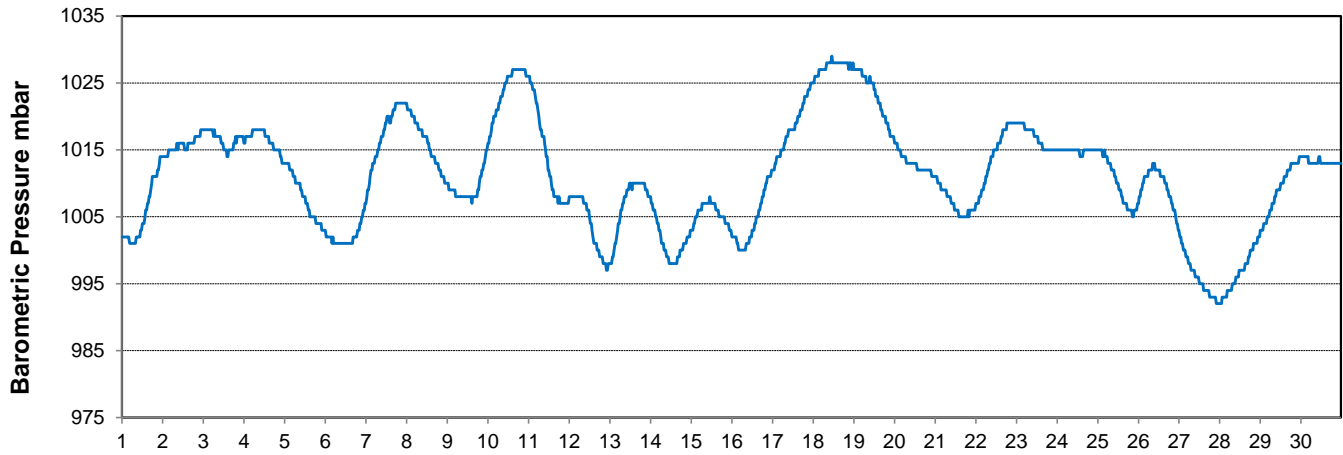
Temperature and Precipitation for November 2016



Relative Humidity for November 2016



Barometric Pressure Corrected to Sea Level for November 2016





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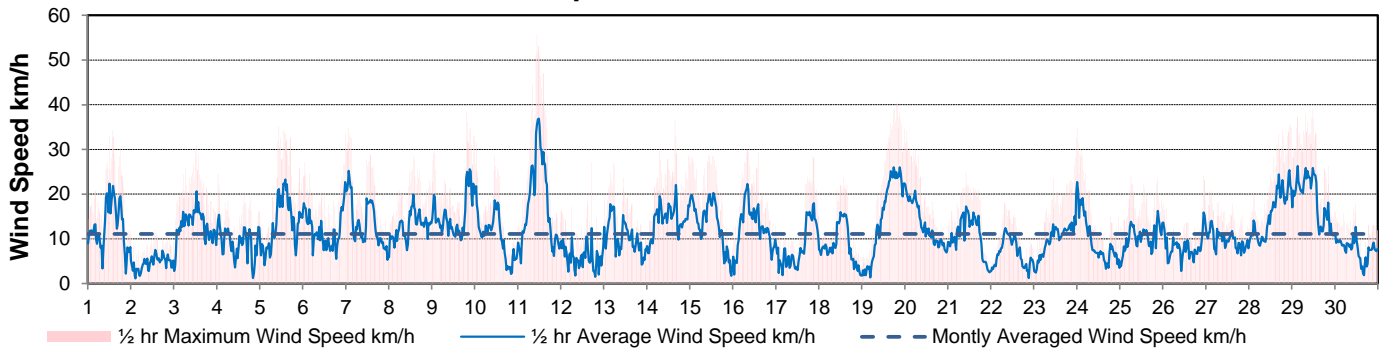
Preliminary **November 2016**

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	34.3	N	13:59	3.0	4.5	4.0	5.0	5.0	6.5	7.5	7.5	34	0.0	1.9	1.8
2	11.9	SE	13:15	0.0	3.5	3.5	4.5	4.5	6.0	7.0	7.0	35	1.6	3.4	2.6
3	31.0	SSW	12:31	2.0	4.0	4.0	4.5	5.0	6.5	7.5	7.0	35	5.4	5.3	2.2
4	24.6	SW	0:53	-0.5	4.5	4.5	5.5	6.0	7.0	8.0	8.5	35	7.5	6.0	1.2
5	35.1	SSW	10:35	2.5	4.0	4.0	5.0	6.0	7.0	8.0	8.5	35	8.5	6.9	1.3
6	33.7	NW	23:50	4.0	4.5	5.0	5.5	6.0	7.0	8.0	8.5	35	3.8	4.5	2.8
7	34.9	NNW	1:53	1.5	5.0	5.0	5.5	6.0	7.0	8.0	8.5	34	8.5	6.3	0.9
8	28.6	SSW	13:44	2.0	4.0	4.5	5.0	6.0	7.0	7.5	8.5	34	1.3	3.3	2.8
9	38.5	NW	19:06	4.5	4.5	5.0	5.5	6.0	7.0	7.5	8.0	34	6.6	4.8	1.3
10	31.5	NW	0:39	1.5	5.0	5.0	5.5	6.0	7.0	7.5	8.0	34	8.2	5.4	0.9
11	55.6	SSW	10:56	3.0	3.5	4.0	5.0	6.0	7.0	7.5	8.0	34	7.4	5.6	1.3
12	27.0	SSE	17:18	0.5	4.0	4.5	5.0	6.0	7.0	7.5	8.0	34	0.0	2.3	2.1
13	27.0	NW	5:23	1.0	5.0	5.0	5.0	5.5	6.5	7.5	8.0	34	5.3	4.3	1.6
14	36.4	NW	15:41	4.5	4.0	4.5	5.0	5.5	6.5	7.5	8.0	34	5.2	4.5	2.0
15	28.7	WSW	10:46	-1.0	4.0	4.5	5.0	5.5	6.5	7.5	8.0	34	7.8	5.3	0.8
16	29.8	NNE	8:16	0.0	3.5	4.0	4.5	5.5	6.5	7.5	8.0	34	2.3	3.8	2.5
17	28.6	NW	20:59	-5.0	3.0	3.5	4.5	5.5	6.5	7.5	8.0	34	0.0	1.4	1.3
18	23.6	NW	13:45	-10.5	2.0	2.5	3.5	5.0	6.5	7.5	8.0	33	3.0	4.5	2.8
19	40.4	ESE	19:36	-8.5	1.5	1.5	3.0	5.0	6.5	7.0	8.0	33	0.0	2.2	2.0
20	34.1	E	0:35	-5.0	1.0	1.0	2.5	4.0	6.0	7.0	8.0	33	5.0	4.3	1.5
21	24.8	E	10:03	-7.5	1.0	1.0	2.0	4.0	6.0	7.0	8.0	33	0.0	1.8	1.6
22	18.1	NW	7:58	-2.0	1.0	1.0	2.0	4.0	6.0	7.0	8.0	33	0.0	0.9	0.8
23	32.5	SSE	23:53	-2.5	1.5	1.5	2.0	3.5	5.5	7.0	7.5	33	0.0	1.0	0.9
24	34.7	SSE	0:10	-0.5	1.0	1.0	2.0	2.5	5.0	6.0	7.0	33	0.0	1.3	1.3
25	24.1	ESE	6:22	-2.0	1.5	1.5	2.0	3.0	5.0	6.5	7.0	33	1.8	3.3	2.4
26	24.1	E	22:55	-8.0	1.5	1.5	2.5	3.5	5.5	6.5	7.5	33	6.5	5.8	0.9
27	21.0	E	3:10	-5.0	1.5	1.5	2.0	3.5	5.5	6.5	7.5	33	2.3	4.0	1.5
28	35.6	N	22:36	-3.0	1.0	1.5	2.0	3.5	5.0	6.5	7.5	33	0.0	0.6	0.6
29	39.0	NNW	11:48	-2.0	1.0	1.0	1.5	3.0	5.0	6.0	7.5	33	0.0	0.9	0.9
30	17.9	ENE	11:32	-3.0	1.0	1.0	2.0	3.0	5.0	6.0	7.5	33	0.2	2.1	1.8
Total													98.2	107.7	48.4
Mean				-1.2	2.9	3.1	3.8	4.8	6.2	7.2	7.8	33.7			
Extreme	55.6	SSW	10:56												
Date	11														

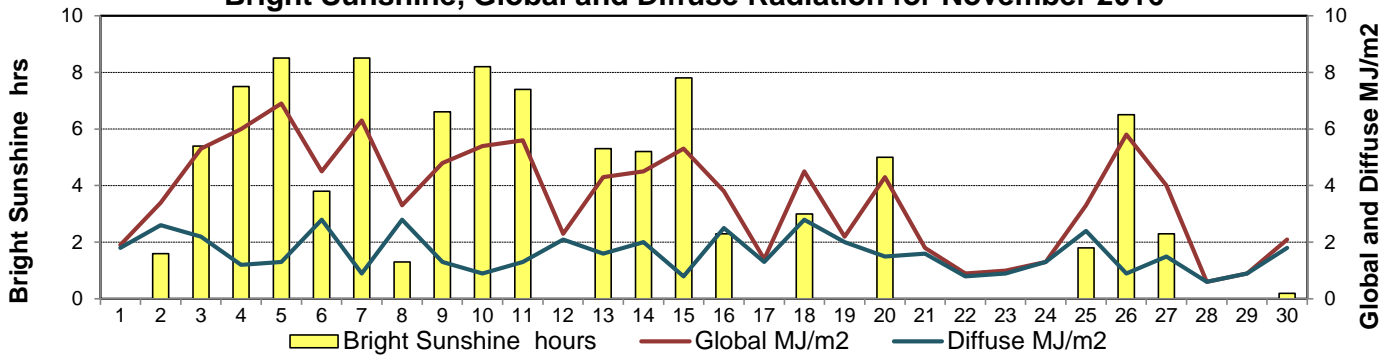
GLOSSARY OF TERMS

Degree-days	Radiation
T _m 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 (T _m -5°C); if T _m ≤ 5°C then GDD = 0	
Heating (18°C-T _m); if T _m ≥ 18°C then HDD = 0	
Cooling (T _m -18°C); if T _m ≤ 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 November 2016

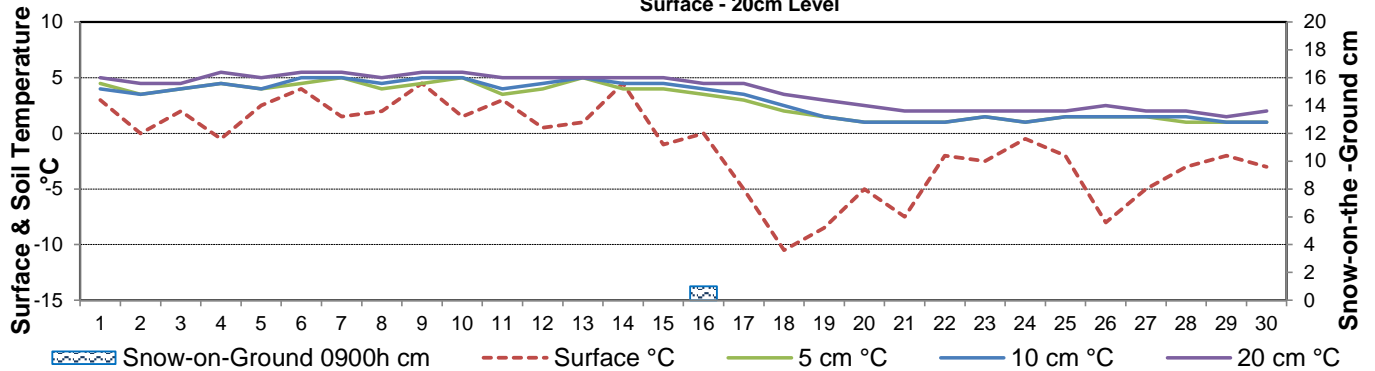


Bright Sunshine, Global and Diffuse Radiation for November 2016



Soil Temperatures for November 2016

Surface - 20cm Level



Soil Temperatures for November 2016

50 - 300cm Level

