



SRC CLIMATE REFERENCE STATION DAILY DATA REPORT

CONSERVATION LEARNING CENTRE

Saskatchewan 53.03°N 105.77°W Estab. 2011

Preliminary **January 2019**

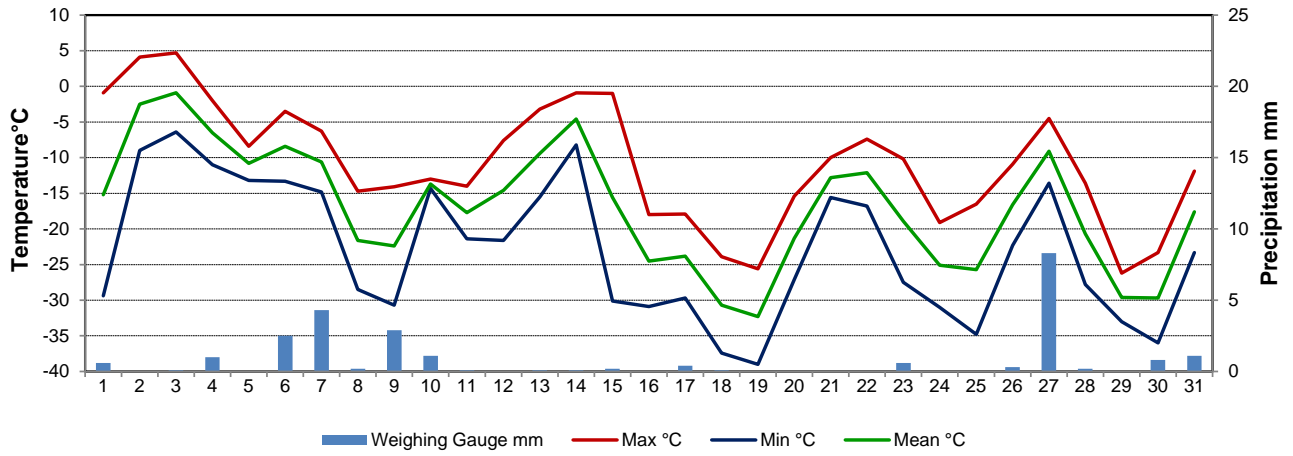
Day	Temperature			Degree-days			Precipitation			Relative Humidity		Station Pressure <i>corrected to sea level</i>	
	Max	Min	Mean	Growing	Heating	Cooling	Weighing Gauge	Notes:	Snow-on-Ground 0900h	Max ½ hr Avg	Min ½ hr Avg	Max ½ hr Avg	Min ½ hr Avg
	°C	°C	°C	5°C base	18°C base	18°C base	mm		cm	%	%	mbar	mbar
1	-0.9	-29.4	-15.2	0.0	33.2	0.0	0.6		19	90	82	1023	999
2	4.1	-9.0	-2.5	0.0	20.5	0.0	0.0		25	93	77	1001	994
3	4.7	-6.4	-0.9	0.0	18.9	0.0	0.1	manual snow depth 24.5 cm	24	92	55	999	994
4	-2.0	-11.0	-6.5	0.0	24.5	0.0	1.0		23	96	79	1006	999
5	-8.4	-13.2	-10.8	0.0	28.8	0.0	0.0		23	93	85	1017	1007
6	-3.5	-13.3	-8.4	0.0	26.4	0.0	2.5		23	95	87	1012	987
7	-6.3	-14.8	-10.6	0.0	28.6	0.0	4.3		26	95	76	1007	987
8	-14.7	-28.5	-21.6	0.0	39.6	0.0	0.2		32	88	71	1030	1008
9	-14.1	-30.7	-22.4	0.0	40.4	0.0	2.9		30	89	78	1030	1016
10	-13.0	-14.3	-13.7	0.0	31.7	0.0	1.1		35	89	84	1021	1014
11	-14.0	-21.4	-17.7	0.0	35.7	0.0	0.1		35	90	84	1026	1021
12	-7.6	-21.6	-14.6	0.0	32.6	0.0	0.0		35	93	77	1022	1014
13	-3.2	-15.5	-9.4	0.0	27.4	0.0	0.1		35	97	87	1023	1017
14	-0.9	-8.2	-4.6	0.0	22.6	0.0	0.1		34	99	86	1024	1009
15	-1.0	-30.1	-15.6	0.0	33.6	0.0	0.2		39	87	59	1026	1010
16	-18.0	-30.9	-24.5	0.0	42.5	0.0	0.0		39	85	78	1024	1021
17	-17.9	-29.7	-23.8	0.0	41.8	0.0	0.4		38	89	68	1025	1023
18	-23.9	-37.4	-30.7	0.0	48.7	0.0	0.1		38	84	72	1029	1025
19	-25.6	-39.0	-32.3	0.0	50.3	0.0	0.0		38	83	74	1029	1021
20	-15.4	-27.1	-21.3	0.0	39.3	0.0	0.0		38	90	79	1021	1008
21	-10.0	-15.6	-12.8	0.0	30.8	0.0	0.0		38	93	75	1017	1007
22	-7.4	-16.8	-12.1	0.0	30.1	0.0	0.0		38	96	86	1017	1006
23	-10.2	-27.5	-18.9	0.0	36.9	0.0	0.6		38	94	69	1027	1006
24	-19.1	-31.0	-25.1	0.0	43.1	0.0	0.0		37	86	75	1027	1012
25	-16.5	-34.8	-25.7	0.0	43.7	0.0	0.0		38	89	77	1018	1011
26	-10.9	-22.3	-16.6	0.0	34.6	0.0	0.3		38	93	81	1016	1004
27	-4.5	-13.6	-9.1	0.0	27.1	0.0	8.3		44	98	78	1018	992
28	-13.6	-27.8	-20.7	0.0	38.7	0.0	0.2		46	82	57	1026	1019
29	-26.2	-33.0	-29.6	0.0	47.6	0.0	0.0		45	79	63	1028	1022
30	-23.3	-36.0	-29.7	0.0	47.7	0.0	0.8		45	83	72	1022	1008
31	-11.9	-23.3	-17.6	0.0	35.6	0.0	1.1		47	88	79	1008	1003
Total				0.0	1083.0	0.0	25.0						
Avg	-10.8	-23.0	-16.9				25.0	Cumulative ppt					
Extreme	4.7	-39.0					8.3		47	99	55	1030	987
Date	3	19					27		31	14	3	8	6

Jan 3 2019, battery replacement and upgrade; Jan 7, 2019 program change to scan data every 10 seconds instead of every 5 seconds.

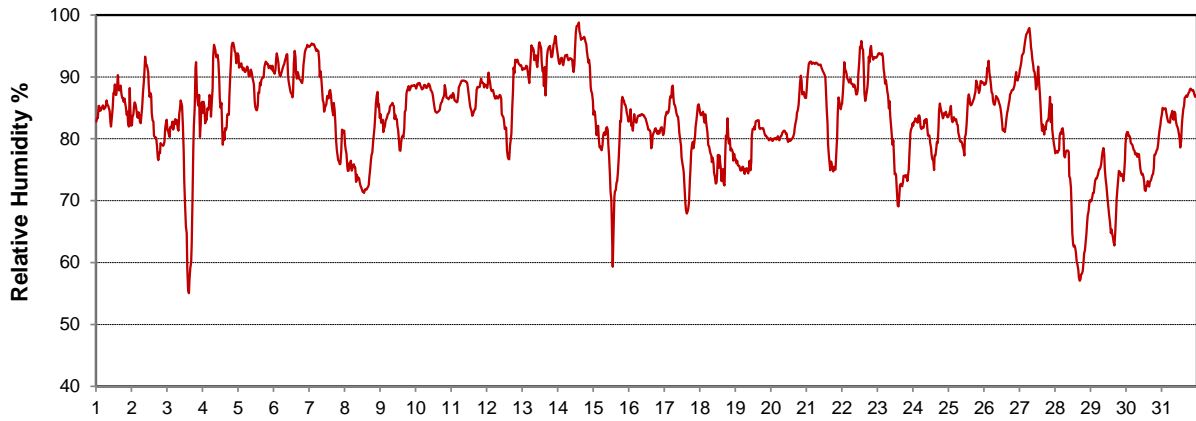
SRC proudly recognizes the following CRS supporters:



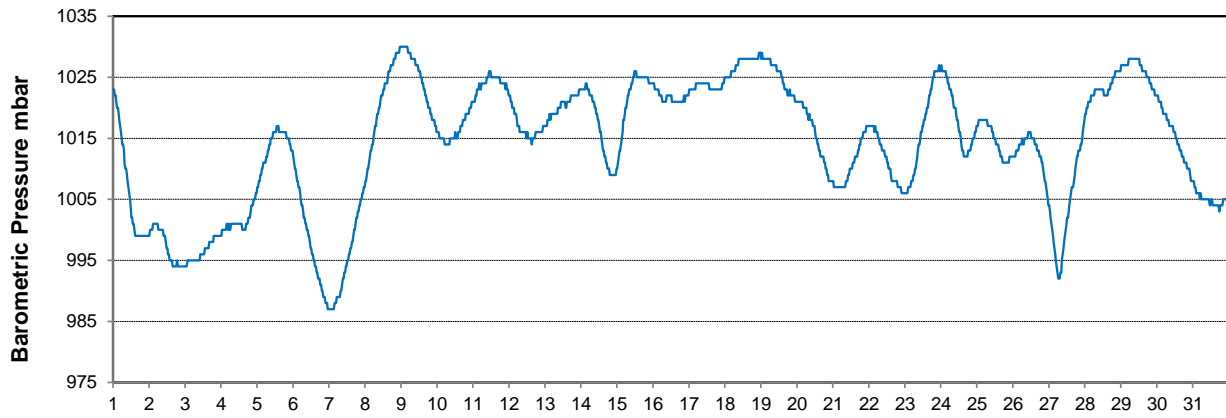
Temperature and Precipitation for January 2019



Relative Humidity for January 2019



Barometric Pressure Corrected to Sea Level for January 2019





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Preliminary

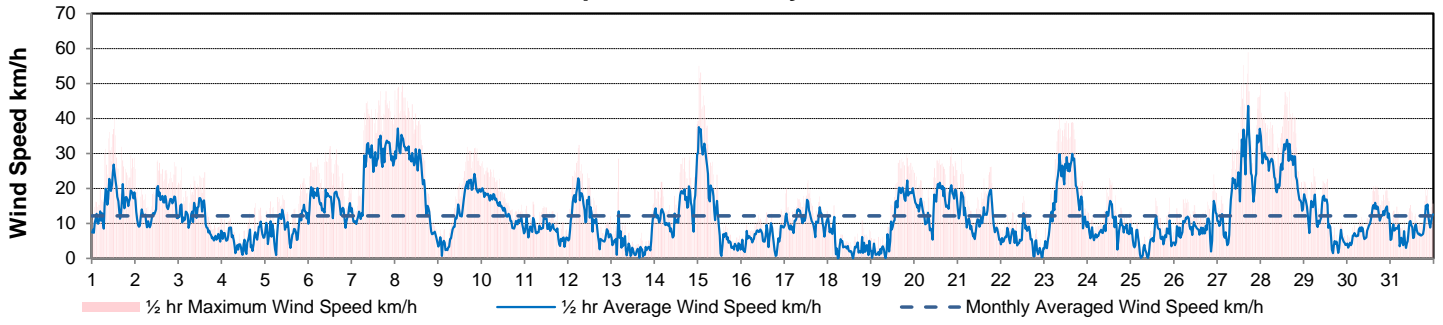
January 2019

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	Possible	% Possible	Global	Diffuse
	km/h			°C	°C	°C	°C	°C	°C	°C	°C	hours	hours		MJ/m ²	MJ/m ²
1	40.1	SW	12:35	-16.5	-1.0	-1.0	-0.5	0.5	2.0	3.0	5.5	0.0	7.7	0.0	1.6	1.5
2	28.0	SW	12:42	-8.0	-1.0	-1.0	-0.5	0.5	2.0	3.0	5.0	0.0	7.7	0.0	1.7	1.6
3	26.0	WSW	1:45	1.0	-0.5	-0.5	-0.5	0.5	2.0	3.0	5.0	6.7	7.7	86.8	3.9	1.4
4	15.8	NNE	18:30	-9.5	-0.5	-0.5	-0.5	0.5	2.0	3.0	5.0	0.0	7.7	0.0	1.5	1.4
5	22.9	ESE	21:35	-10.0	-0.5	-0.5	-0.5	0.5	2.0	3.0	5.0	0.4	7.8	5.1	2.2	2.0
6	32.1	SSE	12:11	-9.5	-0.5	-0.5	-0.5	0.5	2.0	3.0	5.0	0.0	7.8	0.0	1.4	1.3
7	47.8	NW	16:29	-7.5	-0.5	-0.5	-0.5	0.5	2.0	3.0	5.0	0.0	7.8	0.0	2.2	2.1
8	49.4	NW	4:06	-17.0	-0.5	-0.5	0.0	0.5	2.0	3.0	5.0	7.3	7.9	92.9	4.2	0.9
9	31.9	ESE	16:08	-13.0	-0.5	-0.5	0.0	0.5	2.0	3.0	5.0	0.0	7.9	0.0	2.1	2.0
10	27.8	ESE	0:38	-7.0	-1.0	-0.5	-0.5	0.5	2.0	3.0	5.0	0.0	7.9	0.0	2.6	2.4
11	16.2	ENE	4:49	-7.5	-1.0	-0.5	-0.5	0.5	2.0	3.0	5.0	1.1	8.0	13.8	3.0	2.6
12	32.4	S	6:00	-8.0	-1.0	-0.5	-0.5	0.5	1.5	3.0	5.0	6.5	8.0	81.1	3.9	1.8
13	28.5	WNW	4:09	-7.5	-1.0	-0.5	-0.5	0.5	1.5	3.0	5.0	0.6	8.1	7.5	3.0	2.6
14	38.3	N	23:51	-4.0	-1.0	-1.0	-0.5	0.5	1.5	3.0	5.0	0.0	8.1	0.0	2.4	2.3
15	55.0	NNW	0:46	-13.5	-0.5	-0.5	-0.5	0.5	1.5	3.0	5.0	7.6	8.1	93.5	4.8	0.9
16	14.1	NNW	22:22	-16.0	-1.0	-0.5	-0.5	0.5	1.5	3.0	5.0	0.0	8.2	0.0	2.9	2.7
17	22.4	WNW	13:01	-20.5	-1.0	-1.0	-0.5	0.5	1.5	3.0	5.0	7.6	8.2	92.5	6.8	1.2
18	15.2	NNE	3:30	-21.0	-1.5	-1.0	-0.5	0.5	1.5	2.5	5.0	7.4	8.3	89.6	5.2	2.0
19	29.7	ESE	19:36	-22.0	-1.5	-1.0	-0.5	0.5	1.5	2.5	5.0	2.8	8.3	33.7	3.6	2.8
20	31.5	SSW	20:52	-20.0	-1.5	-1.5	-0.5	0.5	1.5	2.5	5.0	0.1	8.4	1.2	3.3	3.0
21	28.9	SSW	2:15	-11.0	-1.5	-1.5	-0.5	0.5	1.5	2.5	5.0	1.8	8.4	21.4	3.1	2.2
22	17.8	SSW	12:47	-9.0	-1.5	-1.5	-0.5	0.5	1.5	2.5	4.5	0.4	8.5	4.7	3.4	3.1
23	40.9	N	8:48	-11.0	-1.5	-1.0	-0.5	0.5	1.5	2.5	4.5	6.4	8.5	75.2	5.3	1.7
24	23.0	SW	12:25	-19.5	-1.5	-1.0	-0.5	0.5	1.5	2.5	4.5	5.4	8.6	63.1	6.0	1.9
25	17.4	NNW	21:35	-19.5	-1.5	-1.5	-1.0	0.5	1.5	2.5	4.5	0.7	8.6	8.1	3.4	3.0
26	24.0	S	22:22	-15.5	-2.0	-1.5	-1.0	0.5	1.5	2.5	4.5	0.1	8.7	1.2	3.4	3.1
27	59.0	NW	17:06	-6.0	-1.5	-1.5	-1.0	0.0	1.5	2.5	4.5	0.0	8.7	0.0	3.0	2.8
28	50.1	NNW	0:01	-19.0	-1.5	-1.5	-1.0	0.0	1.5	2.5	4.5	8.3	8.8	94.5	6.5	1.2
29	25.8	NW	6:00	-24.5	-1.5	-1.5	-1.0	0.0	1.5	2.5	4.5	7.4	8.8	83.7	5.8	1.9
30	20.7	E	15:56	-21.5	-2.0	-1.5	-1.0	0.0	1.5	2.5	4.5	5.2	8.9	58.4	5.5	3.9
31	19.9	NE	19:33	-12.0	-2.0	-2.0	-1.0	0.0	1.5	2.5	4.5	0.0	9.0	0.0	3.9	3.7
Total												83.8	254.9	32.9	111.6	67.0
Mean				-13.1	-1.1	-1.0	-0.6	0.4	1.7	2.8	4.9					
Extreme	59.0	NW	17:06													
Date	27															

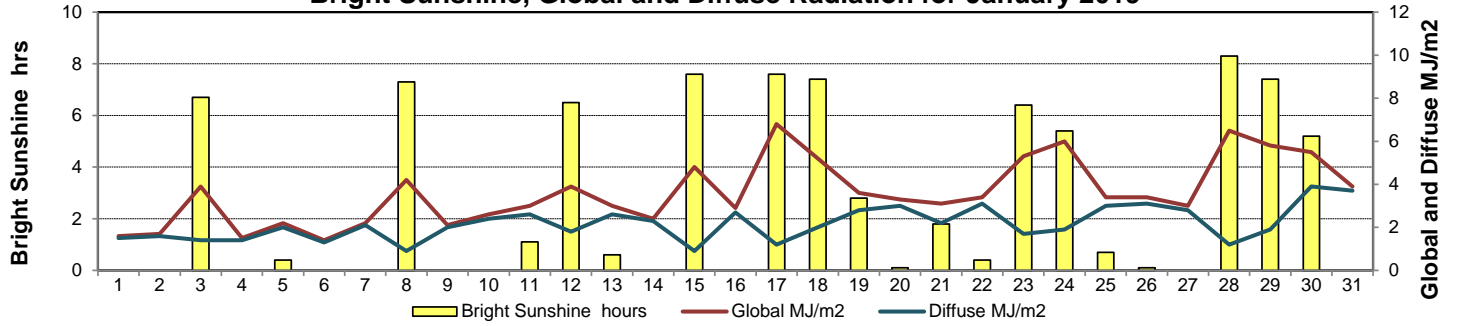
GLOSSARY OF TERMS

Degree-days	Radiation
T _m Mean Temperature	Bright Sunshine 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	Diffuse Radiation reaching the earth's surface after having been scattered from the direct solar beam
Cooling (T _m -18°C); if T _m ≤ 18°C then CDD = 0	Global 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 January 2019

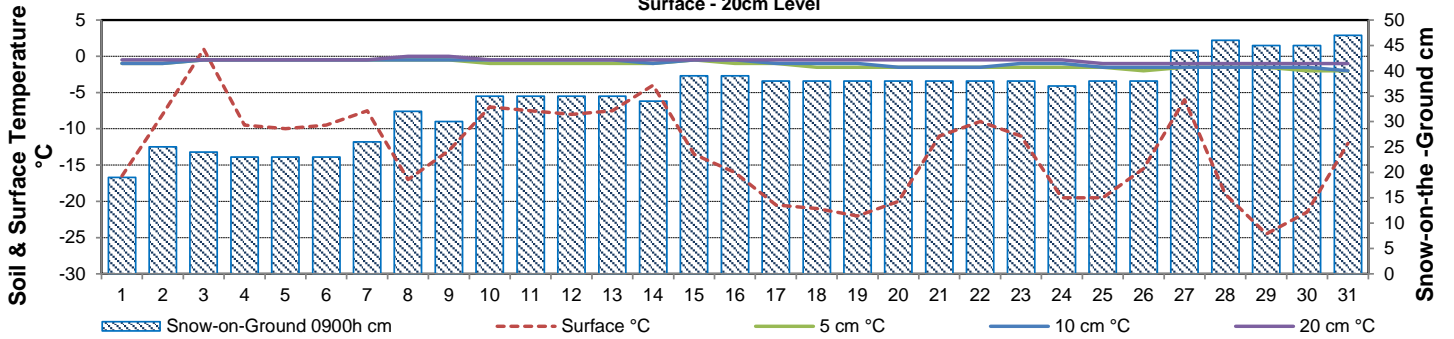


Bright Sunshine, Global and Diffuse Radiation for January 2019



Soil Temperatures for January 2019

Surface - 20cm Level



Soil Temperatures for January 2019

50 - 300cm Level

