



SRC CLIMATE REFERENCE STATION DAILY DATA REPORT

CONSERVATION LEARNING CENTRE

Saskatchewan 53.03°N 105.77°W Estab. 2011

Preliminary

January 2018

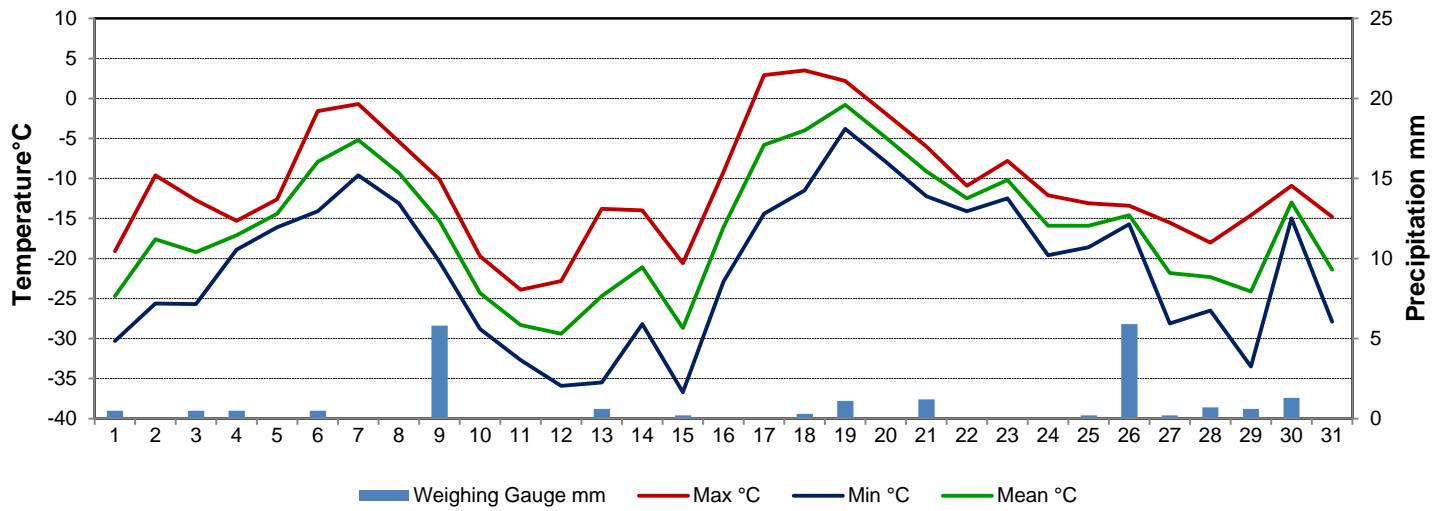
Day	Temperature			Degree-days			Precipitation			Relative Humidity		Station Pressure <i>corrected to sea level</i>	
	Max	Min	Mean	Growing	Heating	Cooling	Weighing Gauge	Notes:	Snow-on-Ground 0900h	Max ½ hr Avg	Min ½ hr Avg	Max ½ hr Avg	Min ½ hr Avg
	°C	°C	°C	5°C base	18°C base	18°C base	mm		cm	%	%	mbar	mbar
1	-19.1	-30.3	-24.7	0.0	42.7	0.0	0.5		8	74	60	1036	1014
2	-9.6	-25.6	-17.6	0.0	35.6	0.0	0.0		8	80	63	1024	1013
3	-12.7	-25.7	-19.2	0.0	37.2	0.0	0.5		9	85	74	1024	1018
4	-15.3	-18.9	-17.1	0.0	35.1	0.0	0.5		9	85	82	1023	1020
5	-12.6	-16.1	-14.4	0.0	32.4	0.0	0.0		9	87	80	1023	1012
6	-1.6	-14.1	-7.9	0.0	25.9	0.0	0.5		9	90	80	1011	1000
7	-0.7	-9.6	-5.2	0.0	23.2	0.0	0.0		8	81	58	1008	1002
8	-5.4	-13.1	-9.3	0.0	27.3	0.0	0.0		8	89	73	1010	1006
9	-10.1	-20.4	-15.3	0.0	33.3	0.0	5.8		9	88	73	1007	998
10	-19.7	-28.8	-24.3	0.0	42.3	0.0	0.0		19	72	63	1025	1004
11	-23.9	-32.7	-28.3	0.0	46.3	0.0	0.0		18	73	58	1028	1025
12	-22.8	-35.9	-29.4	0.0	47.4	0.0	0.0		18	74	58	1033	1027
13	-13.8	-35.5	-24.7	0.0	42.7	0.0	0.6		18	73	63	1031	1016
14	-14.0	-28.2	-21.1	0.0	39.1	0.0	0.0		18	76	59	1041	1017
15	-20.6	-36.7	-28.7	0.0	46.7	0.0	0.2		18	76	63	1043	1031
16	-9.2	-22.9	-16.1	0.0	34.1	0.0	0.0		18	70	48	1030	1007
17	2.9	-14.4	-5.8	0.0	23.8	0.0	0.0		18	88	68	1007	1004
18	3.5	-11.5	-4.0	0.0	22.0	0.0	0.3		17	90	67	1005	990
19	2.2	-3.8	-0.8	0.0	18.8	0.0	1.1		17	93	69	999	991
20	-1.9	-7.9	-4.9	0.0	22.9	0.0	0.0		18	90	76	1011	1000
21	-6.0	-12.2	-9.1	0.0	27.1	0.0	1.2		19	91	83	1015	1011
22	-10.9	-14.1	-12.5	0.0	30.5	0.0	0.0		19	88	83	1015	1008
23	-7.8	-12.5	-10.2	0.0	28.2	0.0	0.0		19	91	80	1016	1012
24	-12.1	-19.6	-15.9	0.0	33.9	0.0	0.0		19	86	82	1016	1011
25	-13.1	-18.6	-15.9	0.0	33.9	0.0	0.2		19	86	83	1011	1003
26	-13.4	-15.7	-14.6	0.0	32.6	0.0	5.9		19	86	85	1015	1003
27	-15.5	-28.1	-21.8	0.0	39.8	0.0	0.2		30	85	64	1031	1015
28	-18.0	-26.5	-22.3	0.0	40.3	0.0	0.7		28	81	71	1036	1031
29	-14.6	-33.5	-24.1	0.0	42.1	0.0	0.6		26	81	70	1034	1008
30	-10.9	-15.0	-13.0	0.0	31.0	0.0	1.3		24	86	68	1007	987
31	-14.8	-27.9	-21.4	0.0	39.4	0.0	0.0		22	77	57	1026	1006
Total				0.0	1057.6	0.0	20.1						
Avg	-11.0	-21.2	-16.1				20.1	Cumulative ppt					
Extreme	3.5	-36.7					5.9		30	93	48	1043	987
Date	18	15					26		27	19	16	15	30

1 Jan 2018 Datalogger error; 8 Jan 2018 New Operating System installed into datalogger

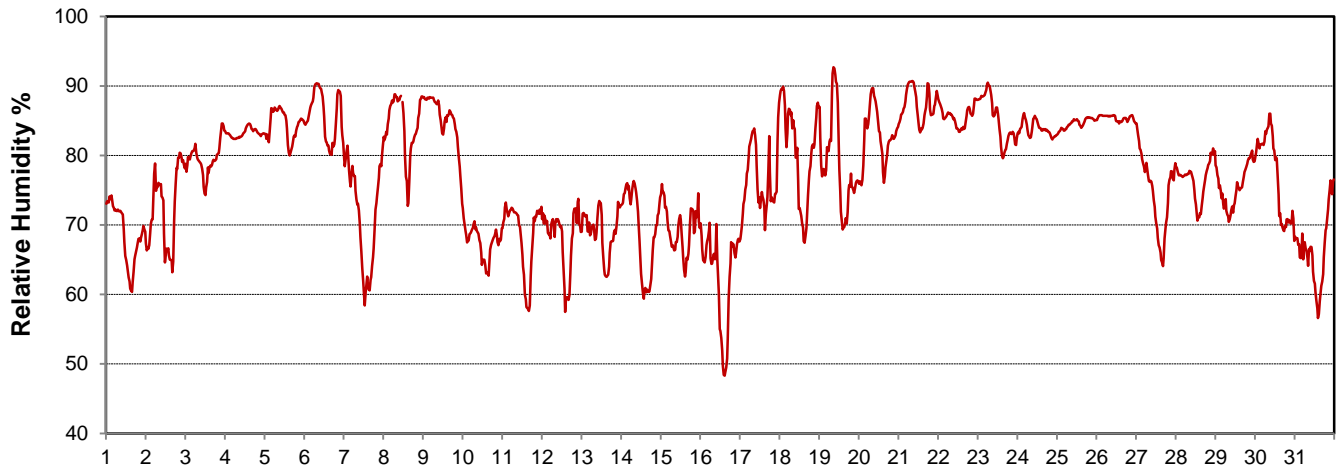
SRC proudly recognizes the following CRS supporters:



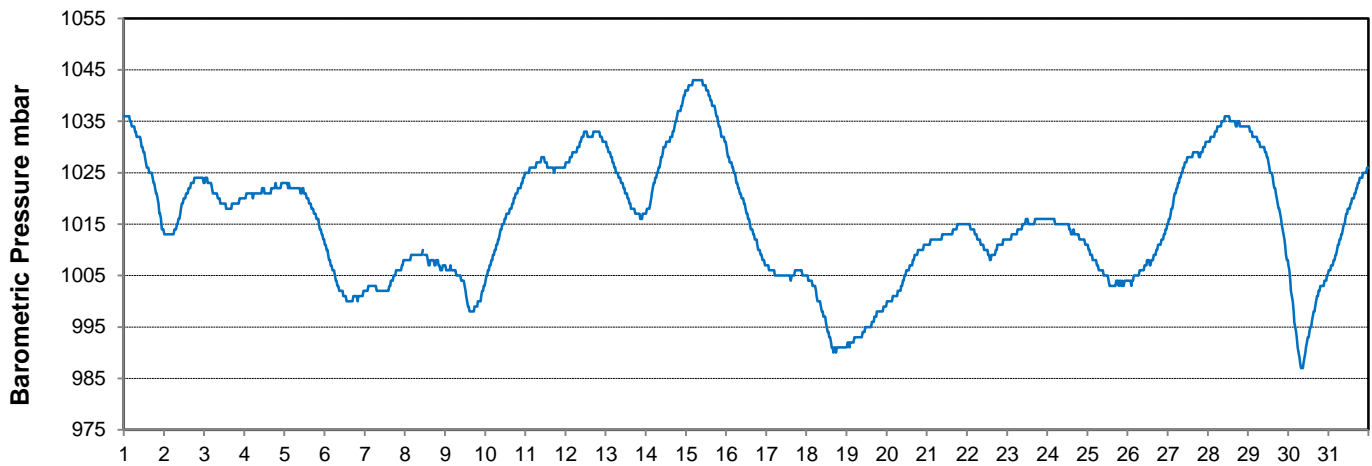
Temperature and Precipitation for January 2018



Relative Humidity for January 2018



Barometric Pressure Corrected to Sea Level for January 2018





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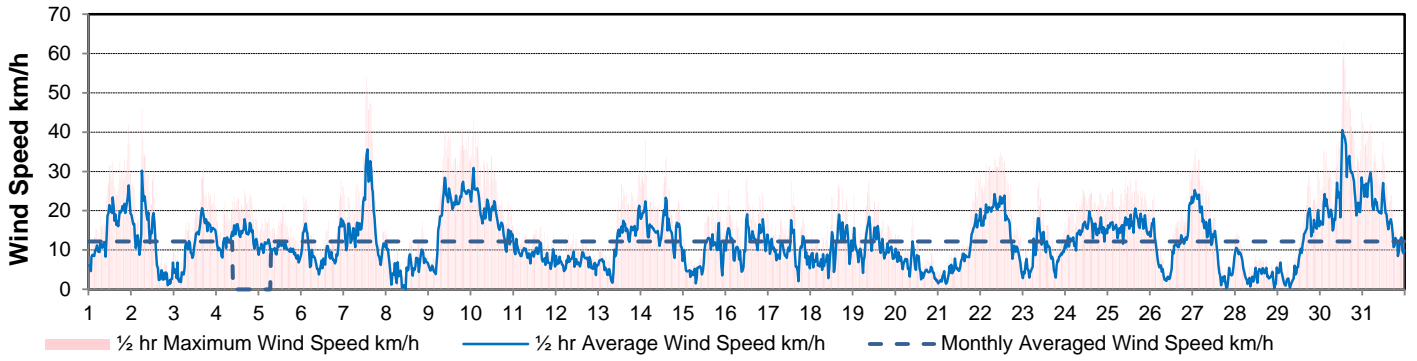
January 2018

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	41.8	SW	22:34	-29.0	-7.5	-6.5	-4.5	0.0	2.0	3.5	6.0	10	7.0	5.9	1.1
2	45.9	NW	6:02	-10.5	-7.0	-6.5	-4.5	-0.5	2.0	3.5	6.0	10	6.6	3.5	1.2
3	30.6	E	16:30	-15.5	-6.0	-6.0	-4.0	-0.5	1.5	3.5	6.0	10	0.0	2.1	2.0
4	25.5	E	16:18	-16.5	-5.5	-5.0	-3.5	-0.5	1.5	3.5	6.0	11	0.0	2.3	2.2
5	21.6	SE	14:06	-12.5	-5.0	-4.5	-3.5	-0.5	1.5	3.5	6.0	11	0.0	2.1	2.0
6	27.6	WNW	22:36	-9.0	-4.5	-4.0	-3.0	-0.5	1.5	3.0	5.5	11	1.8	2.9	2.2
7	54.1	NW	13:04	-7.0	-3.5	-3.5	-2.5	-0.5	1.5	3.0	5.5	11	3.8	3.2	1.6
8	17.1	ESE	20:33	-12.0	-3.5	-3.0	-2.5	-0.5	1.5	3.0	5.5	11	1.4	2.0	1.4
9	40.9	NNE	19:11	-9.5	-3.5	-3.0	-2.5	-0.5	1.5	3.0	5.5	11	0.0	1.3	1.2
10	42.7	N	1:35	-23.5	-3.5	-3.5	-2.5	-0.5	1.5	3.0	5.5	11	2.9	3.7	2.6
11	15.8	WSW	15:23	-31.5	-5.5	-4.5	-3.0	-0.5	1.5	3.0	5.5	11	7.5	5.8	1.1
12	14.3	W	10:04	-32.5	-6.5	-6.0	-3.5	-0.5	1.5	3.0	5.5	11	7.4	6.4	1.1
13	29.9	NW	23:08	-30.5	-7.5	-7.0	-4.5	-0.5	1.0	3.0	5.5	11	6.9	5.5	1.6
14	38.0	NNW	2:40	-23.0	-6.5	-6.0	-4.5	-1.0	1.0	3.0	5.5	11	6.4	4.8	1.7
15	24.4	SSW	20:01	-32.5	-7.0	-6.5	-4.5	-1.0	1.0	2.5	5.5	11	7.0	6.1	1.5
16	28.9	SW	12:05	-19.5	-7.0	-6.5	-4.5	-1.0	1.0	2.5	5.5	11	7.7	4.8	0.9
17	27.4	WNW	13:14	-14.0	-6.0	-5.5	-4.0	-1.0	1.0	2.5	5.5	11	5.8	4.6	2.5
18	27.0	SW	16:13	-10.5	-4.5	-4.5	-3.5	-1.0	1.0	2.5	5.5	11	2.9	3.2	2.2
19	27.5	WNW	9:03	0.0	-3.5	-3.5	-3.0	-1.0	1.0	2.5	5.0	11	4.9	4.5	2.7
20	18.6	ENE	9:50	-4.0	-3.0	-3.0	-2.5	-1.0	1.0	2.5	5.0	12	0.0	2.9	2.8
21	28.4	E	21:41	-7.0	-2.5	-2.5	-2.0	-1.0	1.0	2.5	5.0	12	0.0	1.8	1.6
22	35.0	E	11:32	-12.5	-3.0	-2.5	-2.0	-1.0	1.0	2.5	5.0	12	0.4	3.1	2.7
23	27.3	NW	9:06	-7.0	-3.0	-3.0	-2.0	-1.0	0.5	2.0	5.0	12	0.0	2.4	2.2
24	25.5	ENE	13:35	-13.0	-3.0	-2.5	-2.0	-1.0	0.5	2.5	5.0	12	0.0	3.4	3.2
25	28.5	E	10:22	-15.0	-3.5	-3.0	-2.0	-0.5	0.5	2.0	5.0	12	0.1	3.2	2.9
26	30.4	NNE	23:33	-14.0	-3.5	-3.0	-2.5	-0.5	0.5	2.0	5.0	12	0.0	2.1	1.7
27	35.9	N	1:44	-20.5	-3.0	-3.0	-2.0	-0.5	0.5	2.0	5.0	12	5.1	4.8	3.2
28	15.0	E	1:06	-16.5	-3.0	-3.0	-2.0	-0.5	0.5	2.0	5.0	12	0.0	3.7	3.4
29	30.9	SE	22:51	-20.0	-3.0	-3.0	-2.0	-0.5	0.5	2.0	5.0	12	5.5	5.4	3.6
30	62.9	NW	13:57	-10.0	-3.5	-3.0	-2.5	-0.5	0.5	2.0	5.0	12	0.4	3.8	3.5
31	42.3	NNW	0:16	-19.5	-3.0	-3.0	-2.0	-0.5	0.5	2.0	5.0	12	7.9	6.6	1.6
Total													99.4	117.9	65.2
Mean				-16.1	-4.5	-4.2	-3.0	-0.7	1.1	2.7	5.4	11			
Extreme	62.9	NW	13:57												
Date	30														

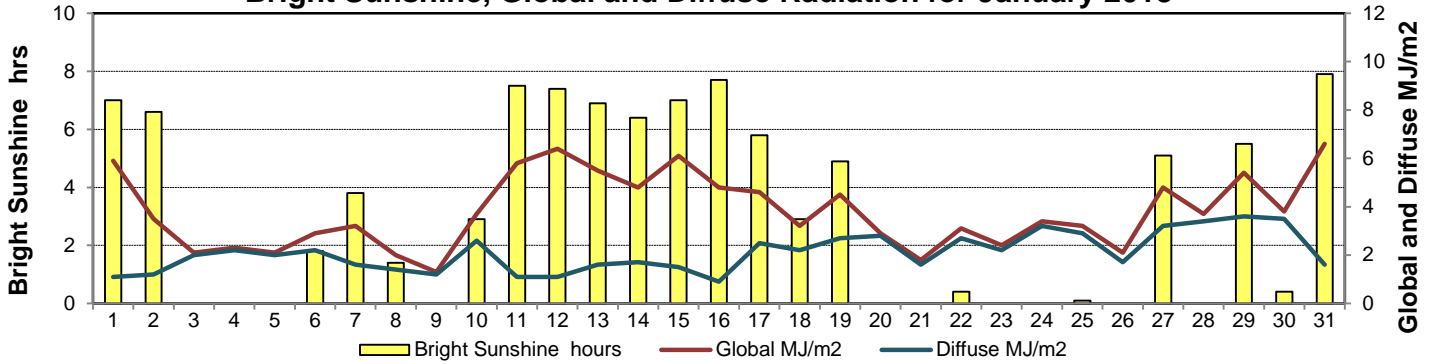
GLOSSARY OF TERMS

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 2018

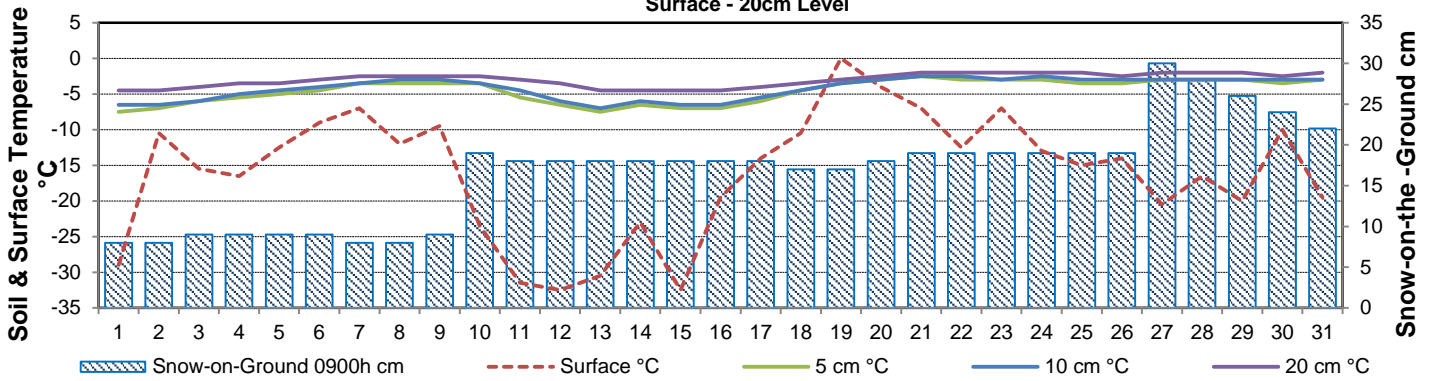


Bright Sunshine, Global and Diffuse Radiation for January 2018



Soil Temperatures for January 2018

Surface - 20cm Level



Soil Temperatures for January 2018

50 - 300cm Level

