



SRC CLIMATE REFERENCE STATION DAILY DATA REPORT

CONSERVATION LEARNING CENTRE

Saskatchewan 53.03°N 105.77°W Estab. 2011

Preliminary February 2017

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	-13.6	-20.5	-17.1	0.0	35.1	0.0	0.0		10	74	51	1028	1020
2	-10.4	-25.5	-18.0	0.0	36.0	0.0	0.0		10	83	61	1028	1021
3	-12.0	-23.1	-17.6	0.0	35.6	0.0	0.3		10	84	69	1021	1014
4	-13.8	-19.8	-16.8	0.0	34.8	0.0	0.0		10	82	56	1015	1013
5	-13.4	-27.0	-20.2	0.0	38.2	0.0	0.0		10	82	57	1015	1013
6	-20.3	-28.9	-24.6	0.0	42.6	0.0	0.4		10	80	59	1016	1014
7	-18.1	-27.3	-22.7	0.0	40.7	0.0	0.1		10	78	53	1016	1012
8	-15.5	-27.4	-21.5	0.0	39.5	0.0	0.6		11	76	54	1014	1012
9	-13.5	-26.4	-20.0	0.0	38.0	0.0	0.2		11	79	51	1012	992
10	-10.2	-19.4	-14.8	0.0	32.8	0.0	2.1		16	86	69	1004	992
11	-2.0	-17.4	-9.7	0.0	27.7	0.0	1.6		14	86	54	1013	1002
12	0.6	-8.4	-3.9	0.0	21.9	0.0	0.0		16	67	49	1015	1008
13	5.9	-3.7	1.1	0.0	16.9	0.0	0.0		15	71	45	1015	1007
14	0.5	-11.7	-5.6	0.0	23.6	0.0	0.0		13	92	66	1016	1006
15	3.7	-6.2	-1.3	0.0	19.3	0.0	0.0		13	92	62	1005	993
16	5.7	-3.7	1.0	0.0	17.0	0.0	0.0		13	89	66	994	983
17	6.9	0.6	3.8	0.0	14.2	0.0	0.1		11	88	59	997	983
18	4.0	-5.9	-1.0	0.0	19.0	0.0	0.0		5	94	67	1007	998
19	-0.2	-4.5	-2.4	0.0	20.4	0.0	2.0		5	94	82	1006	1001
20	2.5	-3.2	-0.4	0.0	18.4	0.0	0.1		6	95	74	1002	1000
21	0.7	-1.6	-0.5	0.0	18.5	0.0	0.1		5	88	61	1006	1002
22	-0.7	-7.2	-4.0	0.0	22.0	0.0	0.0		5	84	66	1016	1006
23	-5.0	-10.9	-8.0	0.0	26.0	0.0	0.0		5	85	47	1018	1015
24	-4.9	-14.9	-9.9	0.0	27.9	0.0	0.6		5	90	61	1018	1017
25	-8.8	-16.2	-12.5	0.0	30.5	0.0	0.0		5	85	51	1017	1003
26	-11.2	-21.3	-16.3	0.0	34.3	0.0	0.2		5	88	52	1010	1003
27	-9.1	-22.5	-15.8	0.0	33.8	0.0	0.0		5	81	51	1010	1006
28	-4.3	-19.0	-11.7	0.0	29.7	0.0	0.1		5	85	38	1013	1008
Total				0.0	794.4	0.0	8.5						
Avg	-5.6	-15.1	-10.4				24.1	Cumulative ppt					
Extreme	6.9	-28.9					2.1		16	95	38	1028	983
Date	17	6					10		10	20	28	1	16

Feb 8, 2017 datalogger program changes. Missing 8/2/2017 08:30 data

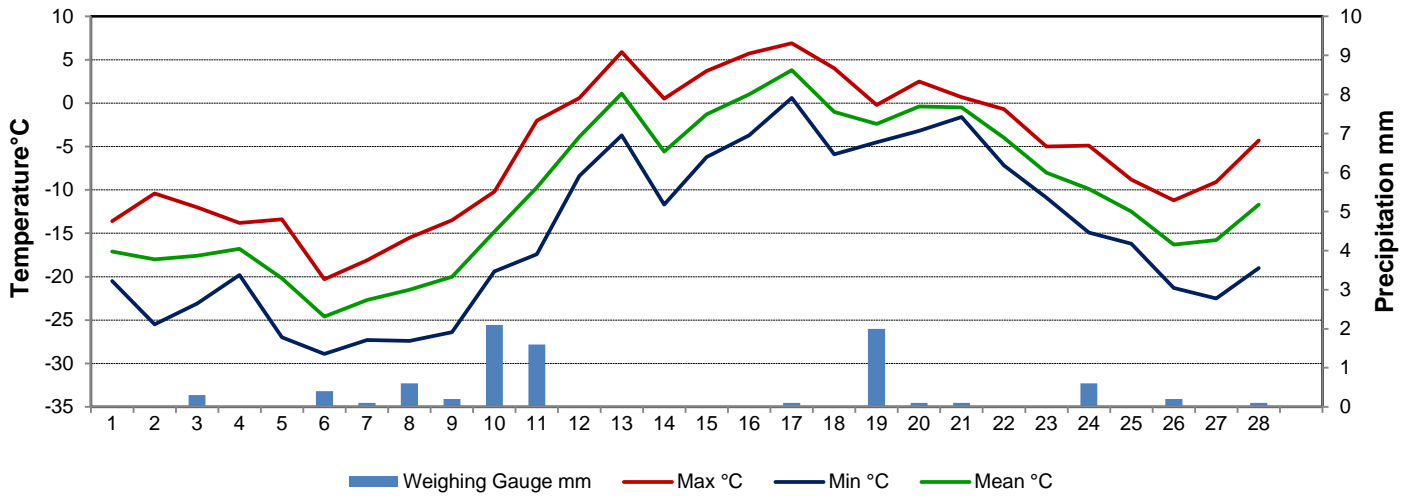
Feb 16, 2017 datalogger program changes

Feb 15, 2017 datalogger program changes. Missing 15/2/2017 09:00 data

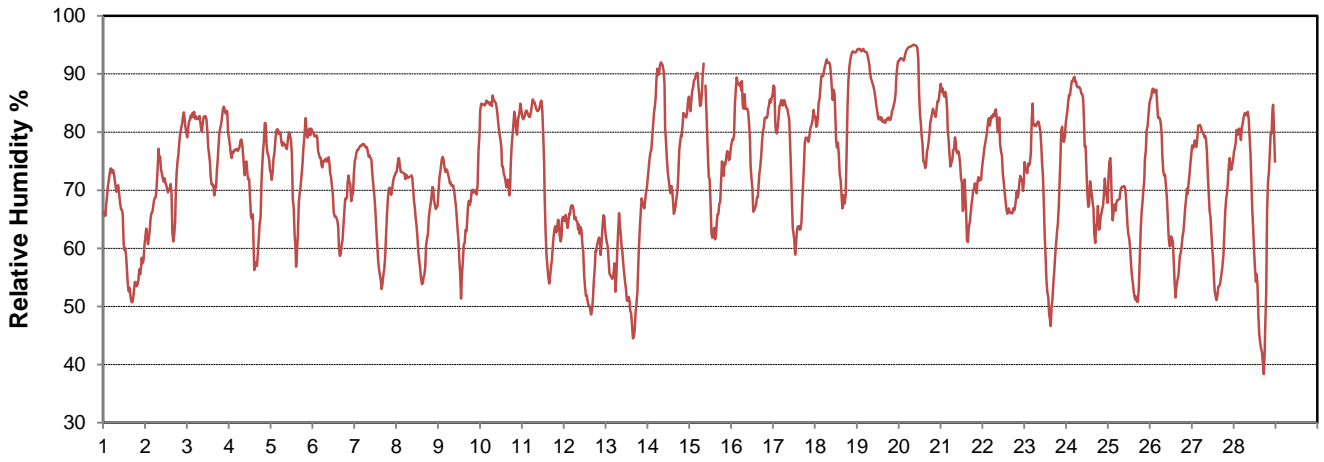
SRC proudly recognizes the following CRS supporters:



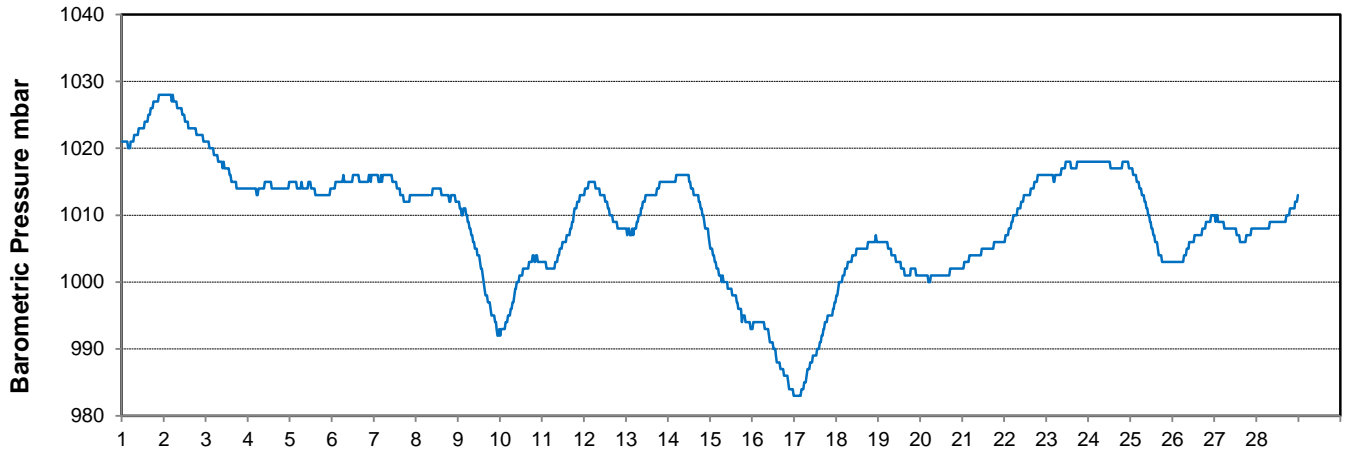
Temperature and Precipitation for February 2017



Relative Humidity for February 2017



Barometric Pressure Corrected to Sea Level for February 2017





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Saskatchewan 53.03°N 105.77°W Estab. 2011

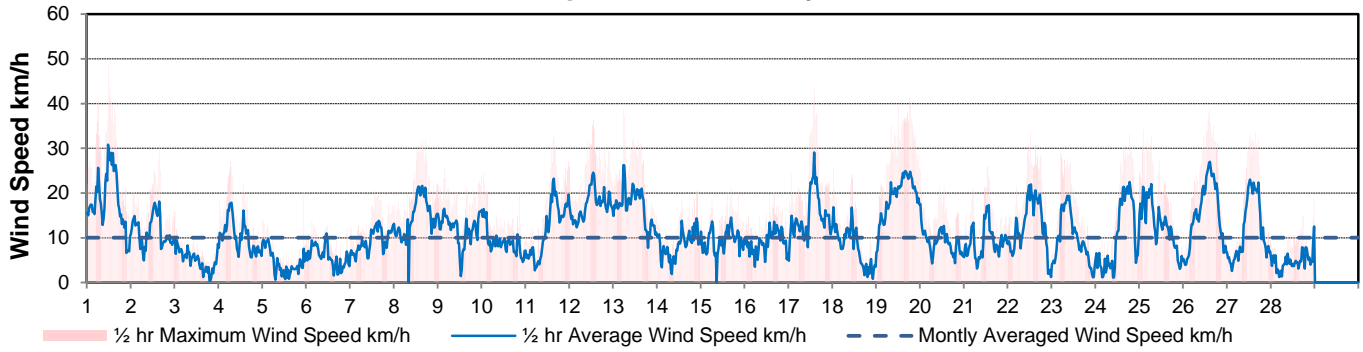
Preliminary **February 2017**

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	48.7	NW	11:50	-16.0	-2.0	-1.5	-1.0	-0.5	1.0	2.5	5.5	12	7.5	6.5	1.8
2	30.7	NW	15:30	-21.0	-2.5	-2.0	-1.5	-0.5	1.0	2.5	5.5	12	1.8	4.2	3.5
3	15.8	WSW	0:02	-21.0	-2.5	-2.0	-1.5	-0.5	1.0	2.5	5.5	12	0.2	3.6	3.3
4	27.0	N	6:53	-16.5	-2.5	-2.5	-1.5	-0.5	1.0	2.5	5.0	12	2.2	4.8	3.4
5	20.4	NNE	22:47	-24.0	-2.5	-2.5	-2.0	-0.5	1.0	2.5	5.0	12	2.5	5.9	3.7
6	14.0	NNE	3:09	-24.0	-3.0	-2.5	-2.0	-0.5	1.0	2.5	5.0	12	5.0	5.9	3.2
7	20.7	WNW	13:40	-25.5	-3.0	-3.0	-2.0	-0.5	1.0	2.5	5.0	11	8.8	9.1	1.8
8	32.2	WSW	17:12	-23.0	-3.5	-3.0	-2.5	-0.5	1.0	2.0	5.0	11	8.8	8.4	1.5
9	25.6	SW	3:58	-25.0	-3.5	-3.0	-2.5	-1.0	1.0	2.0	5.0	11	0.1	4.6	4.2
10	24.6	NE	1:21	-13.0	-3.0	-3.0	-2.5	-1.0	1.0	2.0	5.0	11	4.6	6.5	4.7
11	32.9	W	15:43	-11.5	-3.0	-2.5	-2.0	-1.0	1.0	2.0	5.0	11	5.5	7.0	2.5
12	36.3	SW	13:04	-9.0	-2.5	-2.5	-2.0	-1.0	0.5	2.0	5.0	12	8.0	8.4	2.3
13	38.8	NW	5:45	-3.0	-2.0	-2.0	-1.5	-1.0	0.5	2.0	5.0	12	8.4	8.0	2.4
14	20.6	S	22:17	-10.5	-2.0	-1.5	-1.5	-0.5	1.0	2.0	5.0	12	8.3	8.5	2.4
15	21.2	S	16:43	-7.1	-1.7	-1.7	-1.4	-0.7	0.7	2.0	4.8	12	7.5	9.1	3.5
16	20.1	S	16:19	-0.5	-1.5	-1.5	-1.5	-0.5	0.5	2.0	5.0	12	3.4	6.4	4.7
17	43.4	WNW	14:17	1.5	-1.0	-1.5	-1.0	-0.5	0.5	2.0	4.5	13	7.4	8.7	1.4
18	25.9	NW	0:45	-2.5	-0.5	-0.5	-1.0	-0.5	0.5	2.0	4.5	14	6.9	7.5	3.4
19	41.7	ESE	18:09	-2.0	-0.5	-0.5	-0.5	-0.5	0.5	2.0	4.5	18	0.0	3.7	3.4
20	25.0	E	0:14	0.5	-0.5	-1.0	-1.0	-1.0	0.5	1.5	4.0	17	0.0	3.5	3.2
21	26.0	NW	12:42	-1.0	0.0	-0.5	-0.5	-0.5	0.5	2.0	4.5	17	0.8	4.2	3.7
22	33.5	NNW	12:40	-3.0	-0.5	-0.5	-0.5	-0.5	0.5	1.5	4.0	17	0.0	3.9	3.6
23	28.9	W	5:16	-9.5	-0.5	-0.5	-0.5	-0.5	0.5	1.5	4.5	16	8.3	9.0	2.9
24	33.2	NNW	18:42	-12.5	0.0	-0.5	-0.5	-0.5	0.5	2.0	4.5	16	5.7	8.1	5.1
25	34.2	NW	2:24	-14.5	-1.0	-0.5	-0.5	-0.5	0.5	2.0	4.5	14	7.4	9.9	3.2
26	38.6	NW	14:34	-12.0	-2.0	-1.5	-0.5	0.0	0.5	2.0	4.5	14	8.8	10.1	3.9
27	33.7	SW	15:39	-20.0	-3.0	-2.5	-1.0	0.0	0.5	2.0	4.5	13	10.2	11.8	2.7
28	18.6	N	23:45	-15.5	-4.0	-3.0	-1.5	-0.5	0.5	2.0	4.5	13	9.5	10.7	3.0
Total													147.6	198.0	88.4
Mean				-12.2	-1.9	-1.8	-1.4	-0.6	0.7	2.1	4.8	13.2			
Extreme	48.7	NW	11:50												
Date	1														

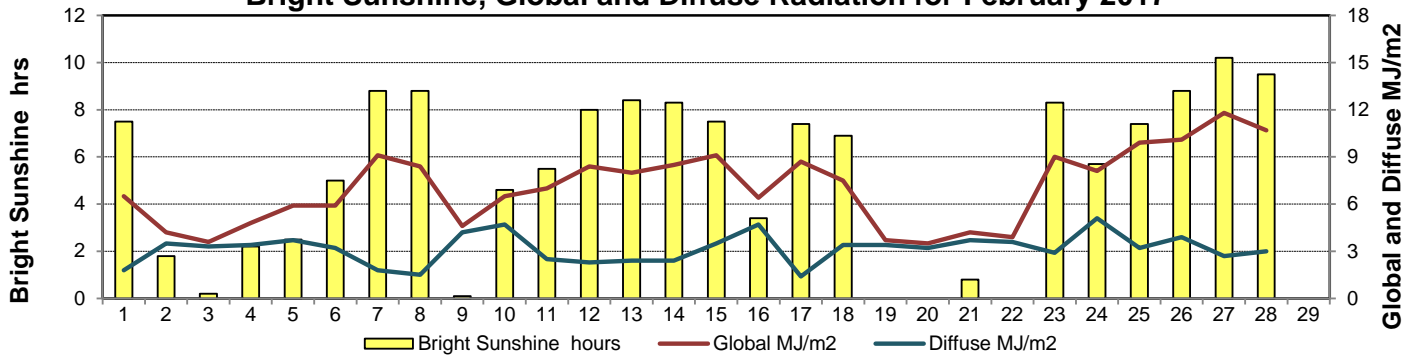
GLOSSARY OF TERMS

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	Diffuse is 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 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 February 2017

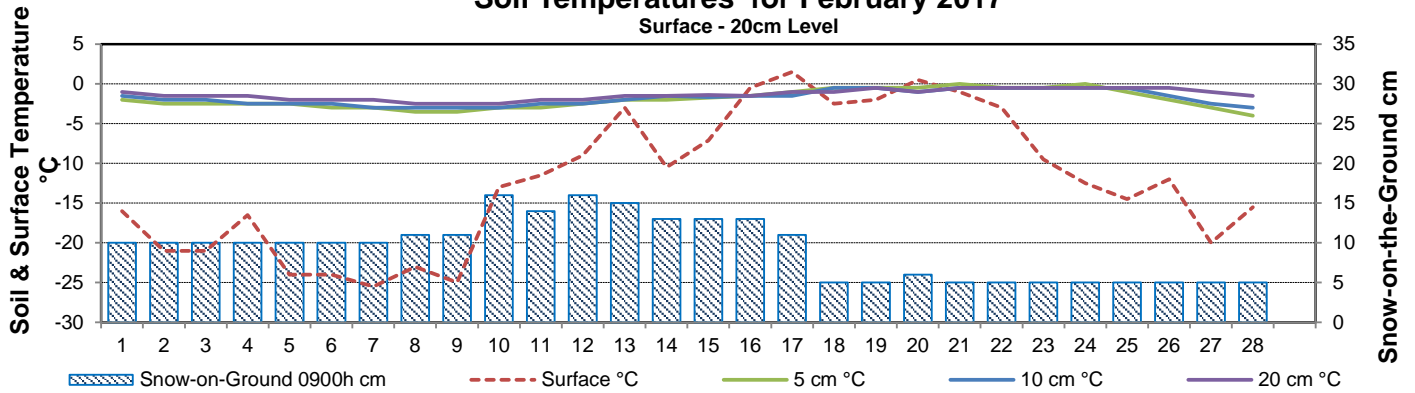


Bright Sunshine, Global and Diffuse Radiation for February 2017



Soil Temperatures for February 2017

Surface - 20cm Level



Soil Temperatures for February 2017

50 - 300cm Level

