



SRC CLIMATE REFERENCE STATION DAILY DATA REPORT

CONSERVATION LEARNING CENTRE

Saskatchewan 53.03°N 105.77°W Estab. 2011

Preliminary

January 2015

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	-5.8	-19.1	-12.5	0.0	30.5	0.0	1.1		14	90	65	1016	1008
2	-18.5	-25.7	-22.1	0.0	40.1	0.0	T		14	87	63	1023	1014
3	-24.6	-32.5	-28.6	0.0	46.6	0.0	0.0		15	78	63	1032	1024
4	-23.8	-32.7	-28.3	0.0	46.3	0.0	0.0		15	73	63	1032	1022
5	-14.9	-29.6	-22.3	0.0	40.3	0.0	0.0		15	75	49	1025	1018
6	-19.9	-24.9	-22.4	0.0	40.4	0.0	0.0		15	76	63	1044	1025
7	-16.5	-31.2	-23.9	0.0	41.9	0.0	1.8		14	84	74	1044	1014
8	-16.7	-20.4	-18.6	0.0	36.6	0.0	0.0		14	81	59	1029	1014
9	-20.1	-24.1	-22.1	0.0	40.1	0.0	0.0		14	72	55	1028	1012
10	-22.2	-31.1	-26.7	0.0	44.7	0.0	0.0		14	77	65	1020	1012
11	-18.9	-31.1	-25.0	0.0	43.0	0.0	0.0		14	76	61	1031	1019
12	-13.2	-29.5	-21.4	0.0	39.4	0.0	0.0		14	83	71	1031	1017
13	-5.6	-17.2	-11.4	0.0	29.4	0.0	0.6		14	92	80	1018	1015
14	4.1	-7.7	-1.8	0.0	19.8	0.0	1.5		16	92	69	1014	1006
15	-0.2	-14.6	-7.4	0.0	25.4	0.0	T		16	82	70	1016	1011
16	-0.4	-14.7	-7.6	0.0	25.6	0.0	0.0		16	88	80	1012	993
17	2.5	-7.4	-2.5	0.0	20.5	0.0	0.0		16	85	59	1003	996
18	-5.4	-17.2	-11.3	0.0	29.3	0.0	0.0		16	92	81	1006	1002
19	-3.5	-17.0	-10.3	0.0	28.3	0.0	T		16	95	88	1010	1003
20	-5.5	-8.2	-6.9	0.0	24.9	0.0	1.3		17	94	89	1021	1010
21	-1.8	-16.1	-9.0	0.0	27.0	0.0	T		16	91	72	1022	1005
22	7.6	-2.8	2.4	0.0	15.6	0.0	0.0		16	82	58	1008	1001
23	3.8	-1.8	1.0	0.0	17.0	0.0	0.0		15	84	71	1011	1005
24	-1.6	-9.6	-5.6	0.0	23.6	0.0	2.4		15	95	84	1012	1003
25	6.3	-8.4	-1.1	0.0	19.1	0.0	0.0		16	96	60	1012	999
26	5.7	-3.2	1.3	0.0	16.7	0.0	0.0		15	86	61	1009	1005
27	0.9	-5.8	-2.5	0.0	20.5	0.0	2.0		15	93	81	1012	1008
28	-5.8	-13.9	-9.9	0.0	27.9	0.0	2.7		19	92	76	1028	1012
29	-12.4	-20.1	-16.3	0.0	34.3	0.0	0.0		17	83	75	1031	1021
30	-8.7	-17.9	-13.3	0.0	31.3	0.0	0.0		17	89	62	1030	1019
31	-17.9	-29.0	-23.5	0.0	41.5	0.0	0.0		18	77	51	1035	1030
Total				0.0	967.6	0.0	13.4						
Avg	-8.2	-18.2	-13.2				13.4	Cumulative ppt					
Extreme	7.6	-32.7					2.7		19	96	49	1044	993
Date	22	4					28		28	25	5	6	16

9 Jan 2015 - missing 1/2 hr of data (15:00) due to site maintenance (diagnostic program installed)

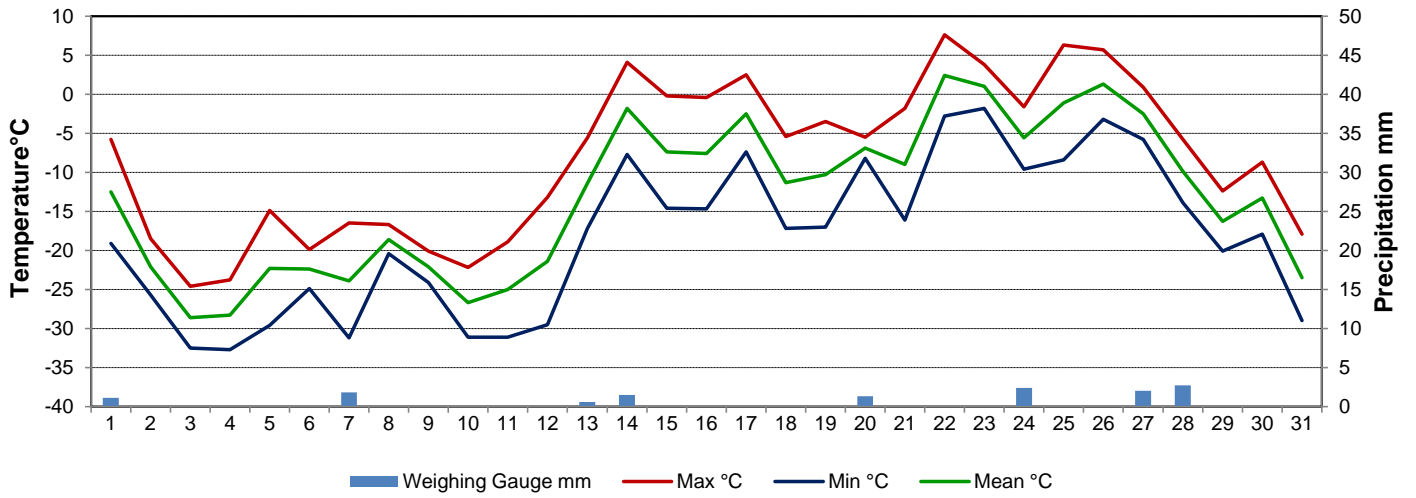


Agriculture and Agri-Food Canada

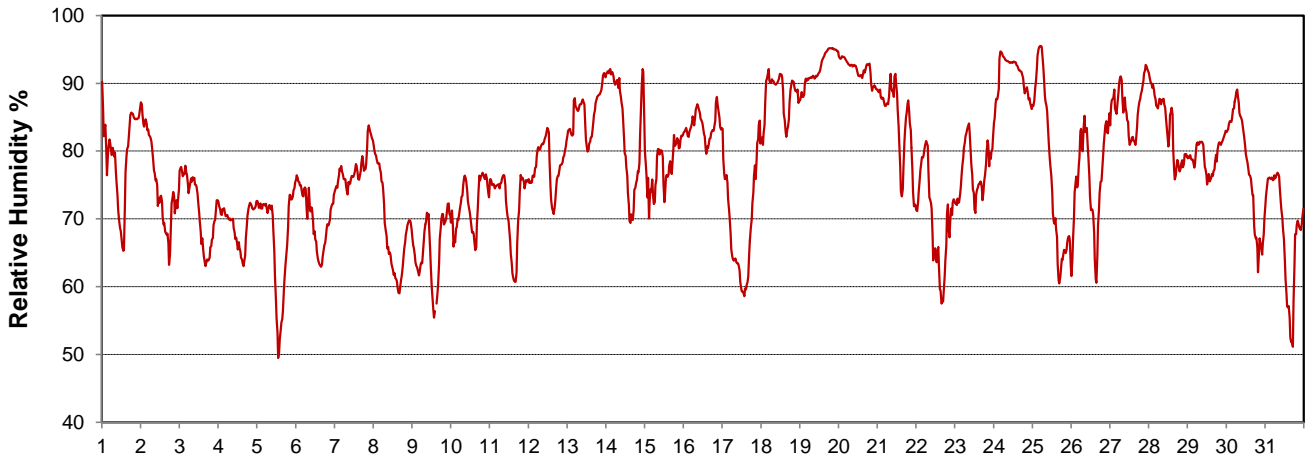
Agriculture et Agroalimentaire Canada



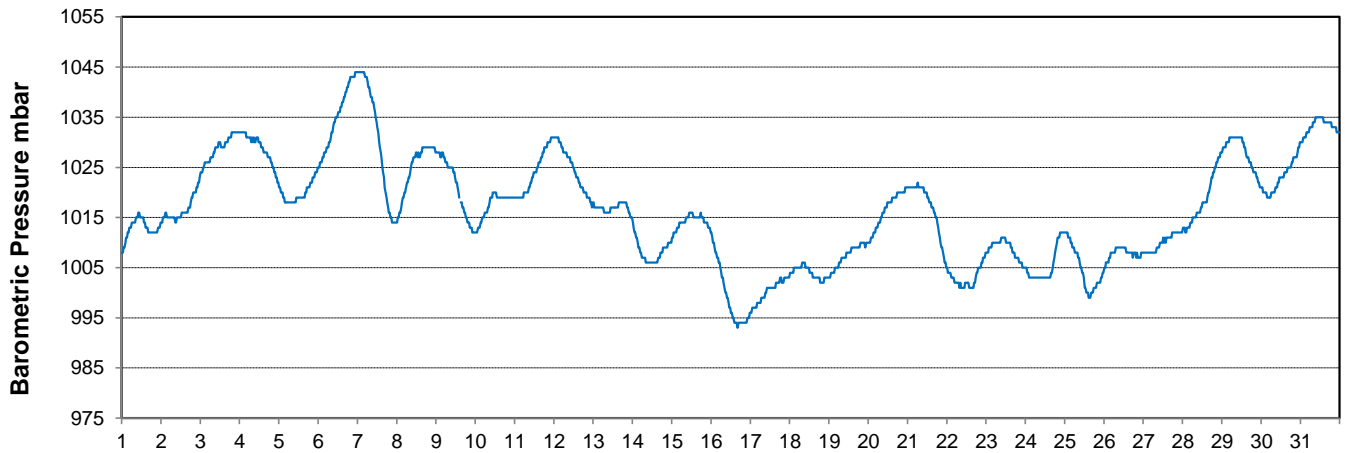
Temperature and Precipitation for January 2015



Relative Humidity for January 2015



Barometric Pressure Corrected to Sea Level for January 2015





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CONSERVATION LEARNING CENTRE

Saskatchewan 53.03°N 105.77°W Estab. 2011

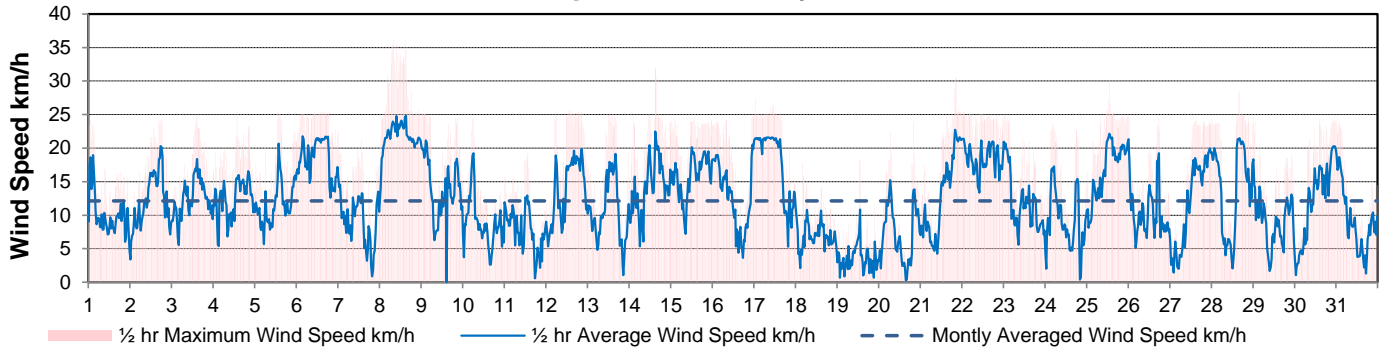
Preliminary **January 2015**

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	24.1	N	1:01	-8.0	-1.5	-1.5	-1.0	0.5	2.0	3.5	6.0	16	0.0	2.5	2.4
2	24.4	NNE	16:47	-12.5	-1.5	-1.0	-0.5	0.5	2.5	3.5	6.0	17	0.0	1.7	1.6
3	25.0	NW	14:44	-16.0	-1.5	-1.0	-0.5	1.0	2.5	3.5	6.0	17	1.8	3.4	2.0
4	25.5	WSW	13:45	-18.5	-2.0	-1.5	-0.5	1.0	2.5	3.5	6.0	16	2.9	4.7	1.3
5	25.5	WNW	13:28	-18.5	-2.5	-2.0	-0.5	1.0	2.5	3.5	6.0	16	2.9	4.3	1.8
6	25.4	WNW	15:09	-20.0	-2.0	-2.0	-1.0	0.5	2.5	3.5	6.0	16	2.7	3.9	1.0
7	22.7	WNW	0:01	-17.5	-2.5	-2.0	-1.0	0.5	2.5	3.5	6.0	16	0.0	2.9	2.2
8	36.3	NNW	8:02	-18.5	-2.5	-2.0	-1.0	0.5	2.0	3.5	6.0	16	2.4	3.8	1.0
9	24.5	SW	19:38	-16.0	-3.0	-2.5	-1.5	0.5	2.0	3.5	6.0	16	0.0	3.2	0.7
10	24.6	NNW	5:43	-19.5	-3.5	-3.0	-1.5	0.5	2.0	3.5	6.0	16	2.1	3.6	1.2
11	19.3	NNW	13:46	-17.5	-4.0	-3.5	-2.0	0.5	2.0	3.5	6.0	15	4.2	5.3	1.1
12	25.6	SW	14:06	-17.5	-4.5	-3.5	-2.5	0.5	2.0	3.5	6.0	15	3.6	5.7	1.3
13	25.1	NW	14:08	-12.5	-3.5	-3.0	-2.0	0.0	2.0	3.5	6.0	15	1.6	2.9	2.2
14	31.9	NW	15:25	-5.0	-3.0	-3.0	-2.5	-0.5	1.5	3.0	5.0	16	0.2	2.8	1.8
15	24.6	NW	2:14	-7.0	-2.0	-2.5	-2.0	-1.0	1.5	2.5	5.0	16	0.0	2.0	1.9
16	24.8	WNW	23:03	-10.5	-2.0	-2.0	-2.0	-0.5	1.5	3.0	5.5	16	0.0	2.1	2.1
17	27.4	W	0:41	-1.0	-2.5	-3.0	-2.5	-1.5	1.0	2.0	4.0	16	2.7	4.2	0.9
18	17.7	NE	4:26	-9.5	-1.5	-1.5	-1.0	0.0	1.5	3.0	5.5	16	3.1	5.2	1.5
19	18.2	SW	13:05	-9.0	-2.0	-2.0	-1.5	0.0	1.5	3.0	5.5	16	0.9	2.7	2.0
20	23.9	NW	20:19	-7.0	-2.0	-2.0	-1.5	0.0	1.5	3.0	5.5	16	0.0	2.4	2.2
21	30.6	SSW	20:27	-14.0	-1.5	-1.5	-1.0	0.0	1.5	3.0	5.5	16	1.4	4.1	1.9
22	25.4	SW	1:29	-1.0	-1.5	-2.0	-1.5	-0.5	1.0	2.5	5.0	16	1.2	3.7	2.3
23	25.0	W	0:57	-3.5	-1.0	-1.5	-1.0	-0.5	1.5	2.5	5.0	17	2.3	3.6	2.7
24	23.6	E	4:10	-5.0	-1.0	-1.0	-1.0	-0.5	1.5	2.5	5.0	18	0.0	2.3	2.2
25	30.3	SW	13:24	-2.0	-1.5	-1.5	-1.5	-1.0	1.0	2.5	4.5	18	1.3	3.3	2.6
26	24.8	WNW	0:24	-2.0	-1.0	-1.0	-1.0	-0.5	1.5	2.5	5.0	18	0.6	3.3	3.0
27	24.1	ENE	22:32	-0.5	-1.0	-1.0	-1.0	-0.5	1.0	2.5	5.0	18	0.0	2.8	2.4
28	28.4	NW	16:04	-7.5	-1.0	-1.0	-1.0	-0.5	1.5	2.5	5.0	18	0.0	3.0	2.8
29	24.5	NNW	0:10	-10.5	-1.0	-1.0	-0.5	0.0	1.5	2.5	5.0	18	0.2	4.2	3.9
30	24.3	N	14:37	-8.0	-1.5	-1.5	-1.0	-0.5	1.0	2.5	5.0	18	0.1	3.3	3.1
31	23.9	NNE	0:07	-12.5	-1.5	-1.5	-1.0	0.0	1.5	2.5	5.5	17	8.0	9.7	4.8
Total													46.2	112.6	63.9
Mean				-10.6	-2.0	-1.9	-1.3	0.0	1.7	3.0	5.5	16.5			
Extreme	36.3	NNW	8:02												
Date	8														

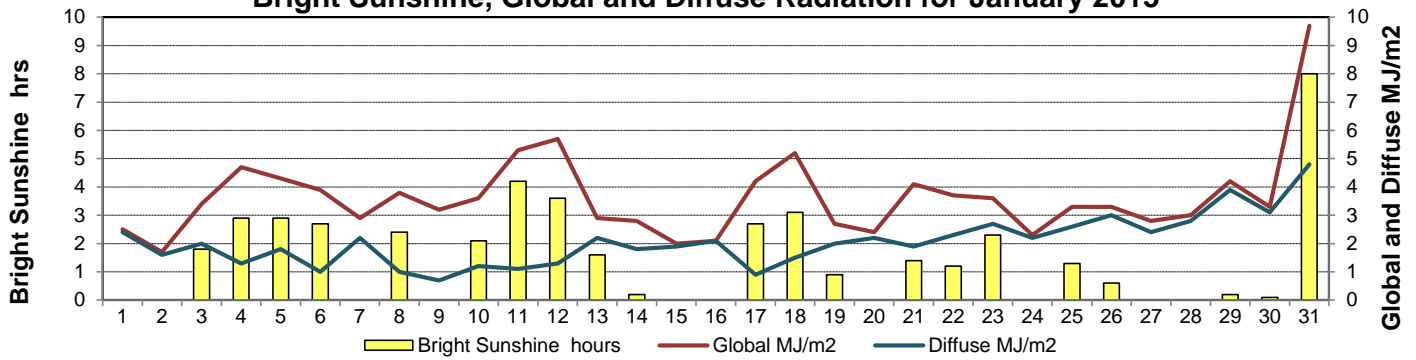
GLOSSARY OF TERMS

Degree-days	Radiation
Tm 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 (Tm-5°C); if Tm ≤ 5°C then GDD = 0	
Heating (18°C-Tm); if Tm ≥ 18°C then HDD = 0	Diffuse 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 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 2015

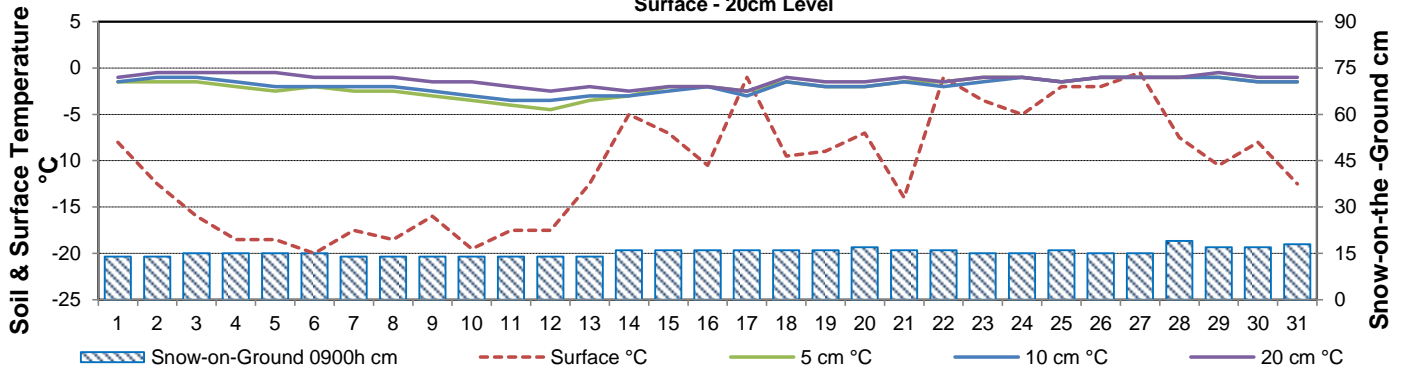


Bright Sunshine, Global and Diffuse Radiation for January 2015



Soil Temperatures for January 2015

Surface - 20cm Level



Soil Temperatures for January 2015

50 - 300cm Level

