



# SRC CLIMATE REFERENCE STATION DAILY DATA REPORT

## CONSERVATION LEARNING CENTRE

Saskatchewan 53.03°N 105.77°W Estab. 2011

Preliminary **November 2014**

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	8.0	-1.9	3.1	0.0	14.9	0.0	0.0			91	64	1009	1003
2	2.4	-0.3	1.1	0.0	16.9	0.0	7.2			96	89	1010	1005
3	1.7	-0.7	0.5	0.0	17.5	0.0	8.9			97	85	1012	1004
4	1.6	-2.3	-0.4	0.0	18.4	0.0	0.0			95	79	1012	1009
5	3.6	-0.8	1.4	0.0	16.6	0.0	1.9			96	74	1022	1010
6	3.1	-3.6	-0.3	0.0	18.3	0.0	4.4			94	74	1022	996
7	3.1	-3.7	-0.3	0.0	18.3	0.0	0.3			96	66	1021	996
8	-3.6	-11.8	-7.7	0.0	25.7	0.0	0.0			80	47	1020	1014
9	-9.2	-13.8	-11.5	0.0	29.5	0.0	0.0			84	55	1015	1011
10	-9.9	-14.0	-12.0	0.0	30.0	0.0	0.2			83	69	1029	1016
11	-7.7	-13.0	-10.4	0.0	28.4	0.0	0.5			86	66	1037	1030
12	-10.1	-18.8	-14.5	0.0	32.5	0.0	0.2			85	65	1037	1034
13	-10.3	-19.5	-14.9	0.0	32.9	0.0	0.1			86	65	1034	1023
14	-11.9	-20.2	-16.1	0.0	34.1	0.0	0.2			85	77	1023	1021
15	-8.2	-14.7	-11.5	0.0	29.5	0.0	0.0			80	64	1024	1007
16	-7.1	-12.7	-9.9	0.0	27.9	0.0	0.1			85	58	1025	1009
17	-7.9	-13.6	-10.8	0.0	28.8	0.0	0.3			89	70	1025	1011
18	-7.3	-13.0	-10.2	0.0	28.2	0.0	0.0			84	73	1016	1004
19	-7.8	-18.1	-13.0	0.0	31.0	0.0	0.1			87	64	1018	1015
20	-3.9	-18.8	-11.4	0.0	29.4	0.0	0.0			90	80	1015	999
21	1.4	-5.1	-1.9	0.0	19.9	0.0	0.3			93	83	1001	994
22	-5.1	-11.8	-8.5	0.0	26.5	0.0	3.7			94	83	1001	991
23	-11.6	-19.8	-15.7	0.0	33.7	0.0	0.4			87	71	1010	999
24	-7.6	-16.1	-11.9	0.0	29.9	0.0	1.0			91	77	1013	1009
25	-10.6	-19.3	-15.0	0.0	33.0	0.0	0.4			85	71	1025	1010
26	-16.9	-32.4	-24.7	0.0	42.7	0.0	0.0			82	66	1029	1023
27	-12.2	-19.1	-15.7	0.0	33.7	0.0	0.1			86	77	1022	1016
28	-17.1	-21.4	-19.3	0.0	37.3	0.0	3.5			80	76	1016	1004
29	-21.2	-28.8	-25.0	0.0	43.0	0.0	0.4			80	66	1009	1003
30	-23.5	-28.6	-26.1	0.0	44.1	0.0	0.0			74	56	1023	1009
Total				0.0	852.6	0.0	34.2						
Avg	-6.9	-13.9	-10.4				445.5	Cumulative ppt 2014					
Extreme	8.0	-32.4					8.9		0	97	47	1037	991
Date	1	26					3		#N/A	3	8	11	22
Site Extreme	8.5	-33.6					34.6	Updated datalogger operating system due to communications malfunction (13 Nov 2014). Manual Calculations are for missing data (14:00 to 15:00 13 Nov 2014). Winter Snowpack started 22 Nov 2014. Snow depth data is not available due to instrument malfunction.					
Date	01/2013	23/2013					2013						

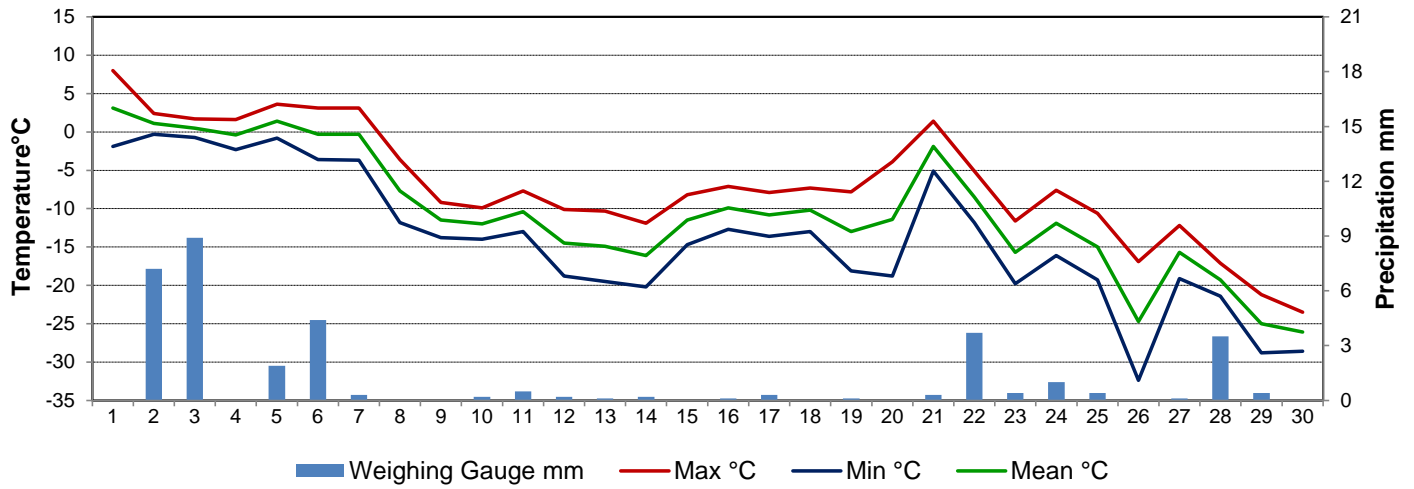


**Agriculture and Agri-Food Canada**

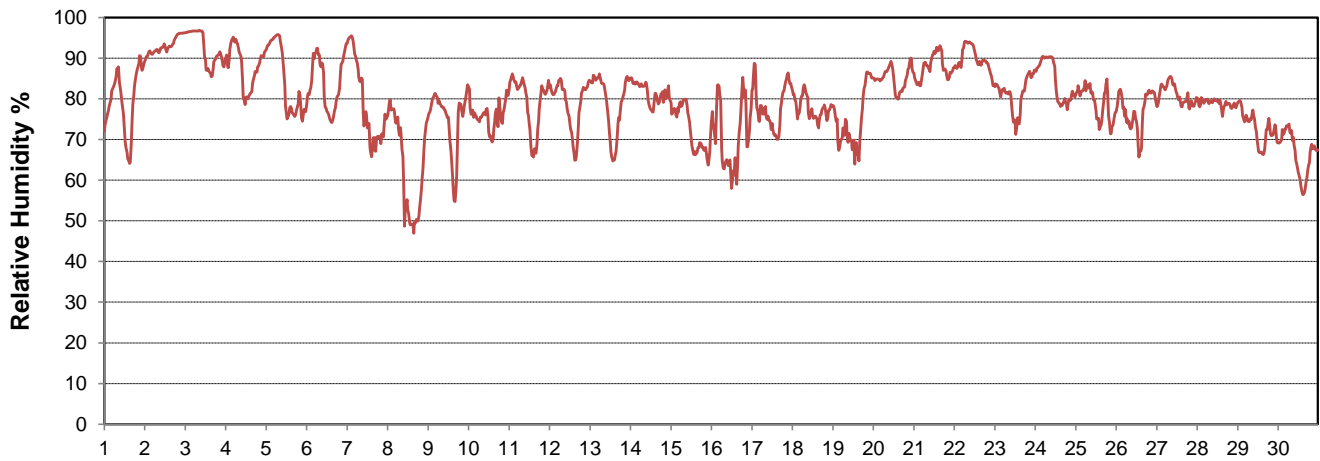
**Agriculture et Agroalimentaire Canada**



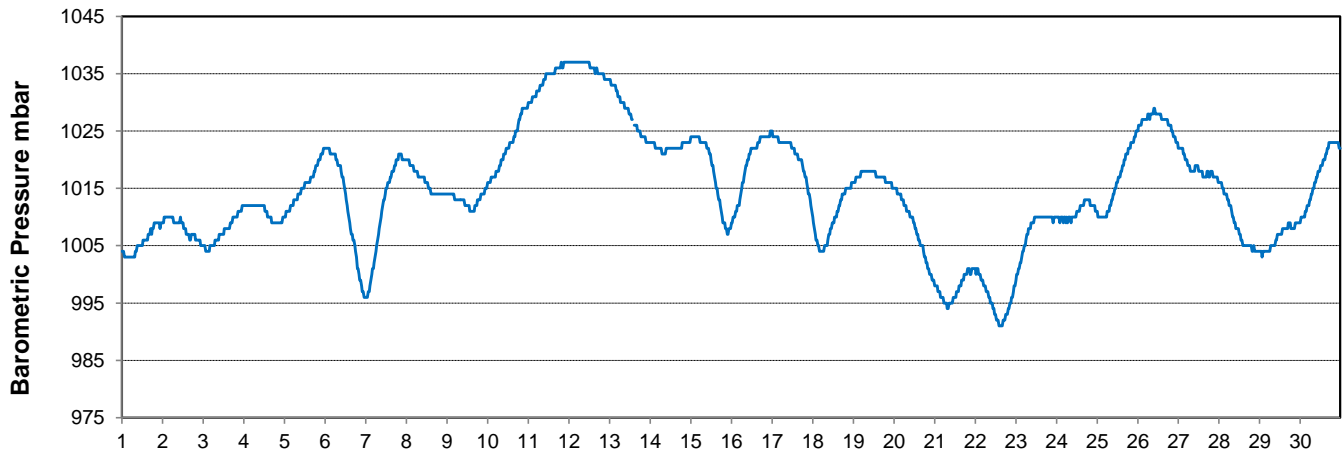
### Temperature and Precipitation for November 2014



### Relative Humidity for November 2014



### Barometric Pressure Corrected to Sea Level for November 2014





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## CONSERVATION LEARNING CENTRE

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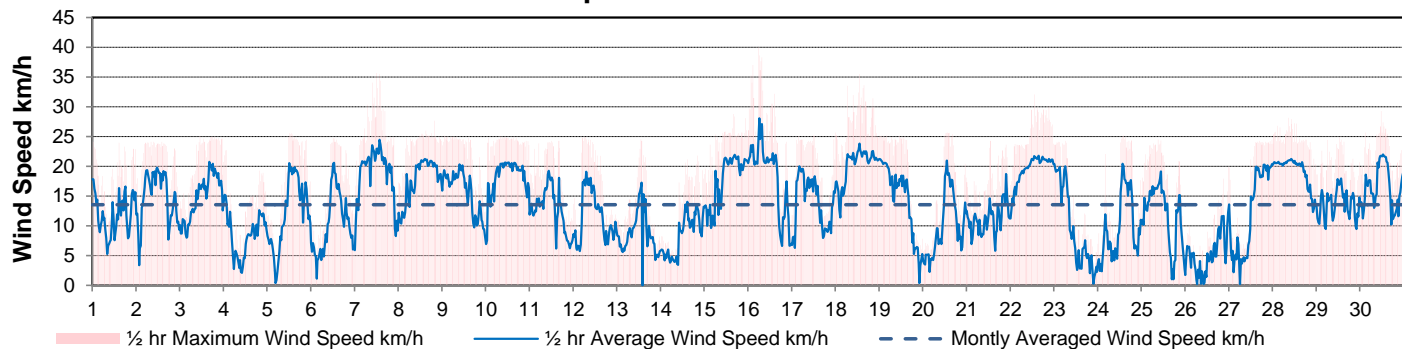
Preliminary **November 2014**

Day	Wind Gust			Soil Temperatures at 0900hrs								Soil Moisture 30 cm	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 <sup>2</sup>	MJ/m <sup>2</sup>
1	24.2	S	0:27	-1.5	3.5	3.5	4.5	6.5	8.0	9.0	8.0	25	7.9	6.9	1.5
2	24.1	ENE	8:07	2.0	4.0	4.0	4.5	6.0	8.0	8.5	8.0	25	0.0	0.7	0.6
3	25.0	WNW	11:02	0.5	3.5	3.5	4.0	5.5	7.5	8.5	7.5	25	1.3	3.3	2.8
4	22.7	NW	1:42	0.0	3.0	3.5	4.0	5.0	7.0	8.0	7.0	26	0.0	2.9	2.8
5	25.5	W	12:12	0.0	3.0	2.5	3.0	4.0	6.5	7.0	6.0	26	2.1	4.3	2.2
6	24.8	SSE	12:03	-2.0	3.5	3.5	4.0	5.5	7.0	8.0	7.5	26	0.0	3.3	2.9
7	35.6	NW	12:04	2.0	2.5	2.0	3.0	4.5	6.5	7.5	6.5	27	0.1	2.2	2.1
8	27.7	NW	19:31	-8.0	1.5	2.0	3.0	5.0	7.0	7.5	7.0	26	0.1	3.8	3.3
9	25.1	NW	1:16	-11.5	0.5	1.0	2.0	5.0	7.0	8.0	7.5	26	1.8	4.1	2.5
10	25.0	NW	8:15	-12.5	0.0	0.5	2.0	4.5	7.0	8.0	8.0	25	1.0	4.1	3.2
11	24.3	NNE	12:18	-10.0	-0.5	0.0	1.0	4.0	6.5	8.0	8.0	24	2.3	4.2	2.6
12	24.9	NW	6:16	-12.5	-0.5	0.0	1.0	4.0	6.5	8.0	8.0	24	2.4	4.4	2.8
13	24.6	W	13:25	-15.0	-0.5	0.0	1.0	3.5	6.5	8.0	8.0	23	4.9	5.7	1.2
14	21.8	NNW	20:02	-18.5	-1.0	0.0	1.0	3.5	6.5	8.0	8.5	23	4.3	4.9	1.9
15	28.8	WSW	16:16	-14.0	-1.0	0.0	1.0	3.5	6.0	7.5	8.0	22	1.2	4.2	2.7
16	40.0	N	5:48	-10.5	-1.0	-0.5	0.5	3.0	5.5	7.5	8.0	22	4.8	5.0	1.8
17	25.2	WNW	12:11	-10.0	-1.0	-0.5	0.5	3.0	5.5	7.0	8.0	21	1.1	4.4	2.3
18	35.5	NW	13:21	-9.0	-1.0	-0.5	0.5	2.5	5.5	7.0	8.0	21	0.0	2.8	2.6
19	25.2	NNW	4:17	-9.0	-1.0	-0.5	0.5	2.5	5.0	7.0	8.0	21	0.1	3.1	2.8
20	25.7	S	13:45	-13.0	-1.0	-0.5	0.5	2.5	5.0	7.0	8.0	21	0.0	2.3	2.2
21	24.3	NW	13:02	-1.0	-1.5	-1.5	-0.5	1.0	4.0	6.0	6.5	21	0.0	1.1	1.1
22	32.0	ENE	13:10	-6.0	-1.5	-1.5	-1.0	0.5	3.5	5.5	6.0	21	0.0	1.4	1.3
23	24.3	N	6:21	-13.0	-1.0	-1.0	-0.5	1.5	4.0	6.0	7.0	21	1.3	3.3	2.6
24	25.2	WNW	14:00	-9.0	-1.0	-1.0	0.0	1.5	4.0	6.0	7.0	21	0.2	2.2	1.7
25	24.5	ENE	9:00	-11.0	-1.0	-1.0	0.0	2.0	4.0	6.0	7.5	21	0.0	2.7	2.6
26	19.9	S	23:48	-23.0	-1.0	-0.5	0.5	2.0	4.5	6.0	8.0	21	3.1	5.3	1.2
27	24.5	NE	23:44	-11.0	-1.0	-0.5	0.5	2.0	4.5	6.0	8.0	20	0.0	2.0	1.9
28	28.2	ENE	8:37	-14.5	-1.0	-0.5	0.5	2.0	4.0	6.0	7.5	20	0.0	1.8	1.7
29	24.8	NW	12:51	-17.5	-1.0	-0.5	0.0	2.0	4.0	6.0	7.5	19	2.1	4.1	1.1
30	29.3	WNW	11:56	-24.5	-1.5	-1.0	0.0	2.0	4.0	6.0	7.5	18	3.0	4.5	1.5
Total													45.1	105.0	63.5
Mean				-9.4	0.2	0.5	1.4	3.3	5.7	7.2	7.5	22.7			
Extreme	40.0	N	5:48												
Date	16														
Site Extreme															

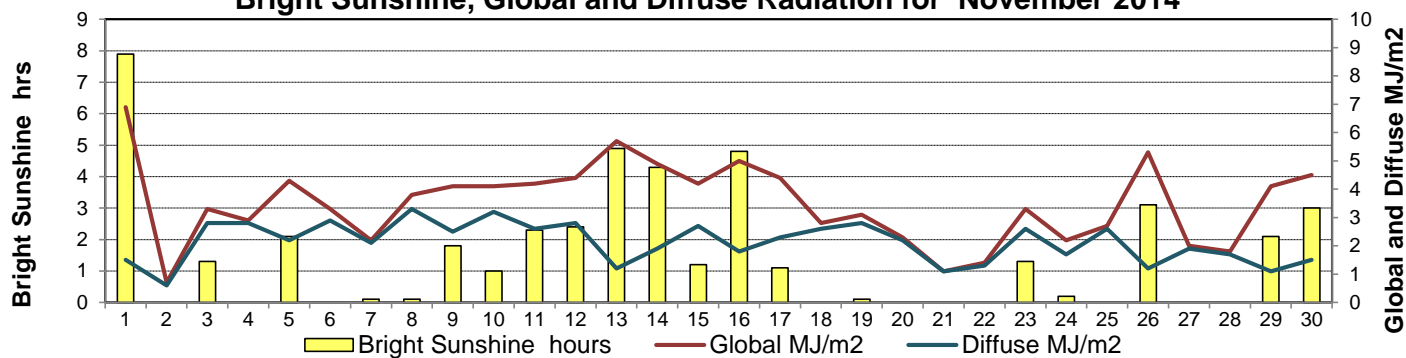
### GLOSSARY OF TERMS

Tm	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	(Tm-5°C); if Tm ≤ 5°C then GDD = 0	Diffuse	is radiation reaching the earth's surface after having been scattered from the direct solar beam
Heating	(18°C-Tm); if Tm ≥ 18°C then HDD = 0	Global	is the sum of the direct solar and diffuse radiation
Cooling	(Tm-18°C); if Tm ≤ 18°C then CDD = 0	Relative Humidity	The ratio of the air's water vapour content to its water vapour capacity which changes with temperature.
T	Trace of Precipitation	Air Pressure	The force exerted by the weight of a column of air above a given point
SOG	Depth of snow-on-the-ground	Wind Gust	The daily highest instantaneous value recorded irrespective of direction and/or duration
Red Cell	no data available		
Red Number	manual calculation		

### Wind Speed for November 2014

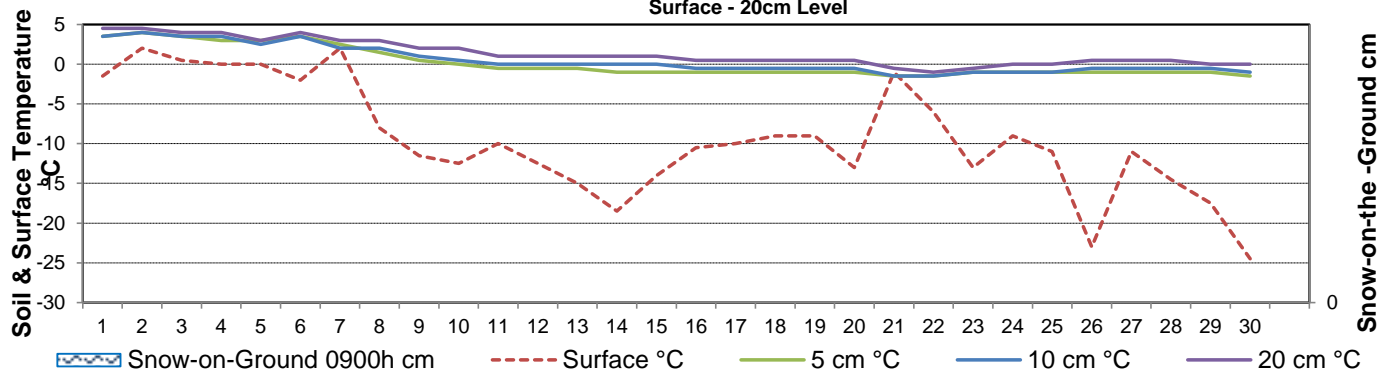


### Bright Sunshine, Global and Diffuse Radiation for November 2014



### Soil Temperatures for November 2014

Surface - 20cm Level



### Soil Temperatures for November 2014

50 - 300cm Level

