



SRC CLIMATE REFERENCE STATION DAILY DATA REPORT

CONSERVATION LEARNING CENTRE

Saskatchewan 53.03°N 105.77°W Estab. 2011

Preliminary

March 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	-22.3	-35.8	-29.1	0.0	47.1	0.0	0.0		42	68	52	1033	1030
2	-13.6	-30.2	-21.9	0.0	39.9	0.0	0.0		44	75	37	1030	1025
3	-13.7	-34.2	-24.0	0.0	42.0	0.0	0.0		44	76	39	1025	1020
4	-16.6	-30.7	-23.7	0.0	41.7	0.0	4.2		44	84	71	1020	1019
5	-12.1	-22.3	-17.2	0.0	35.2	0.0	0.0		44	85	65	1018	1011
6	-6.9	-24.9	-15.9	0.0	33.9	0.0	1.6		50	86	62	1018	1010
7	-13.8	-34.4	-24.1	0.0	42.1	0.0	0.2		50	86	70	1023	1018
8	-4.6	-21.1	-12.9	0.0	30.9	0.0	0.3		50	85	68	1019	1000
9	2.0	-12.5	-5.3	0.0	23.3	0.0	0.0		50	91	65	1001	997
10	4.4	-5.4	-0.5	0.0	18.5	0.0	0.2		48	93	55	1011	997
11	-1.1	-13.2	-7.2	0.0	25.2	0.0	0.0		48	93	71	1018	1012
12	6.6	-14.4	-3.9	0.0	21.9	0.0	0.0		47	92	55	1014	1001
13	6.1	-4.4	0.9	0.0	17.1	0.0	0.4		45	92	58	1006	997
14	-4.4	-13.4	-8.9	0.0	26.9	0.0	0.0		41	84	70	1017	1007
15	-7.2	-15.2	-11.2	0.0	29.2	0.0	0.0		42	91	70	1024	1015
16	9.5	-8.4	0.6	0.0	17.4	0.0	0.2		45	89	53	1015	998
17	10.1	-9.0	0.6	0.0	17.4	0.0	0.0		43	93	48	1006	996
18	3.9	-5.9	-1.0	0.0	19.0	0.0	0.2		44	93	63	1012	1006
19	5.8	-8.2	-1.2	0.0	19.2	0.0	0.0		44	90	54	1011	1008
20	2.9	-12.0	-4.6	0.0	22.6	0.0	0.0		43	87	62	1023	1006
21	-11.9	-20.2	-16.1	0.0	34.1	0.0	0.0		43	72	53	1031	1023
22	-10.9	-23.0	-17.0	0.0	35.0	0.0	0.0		42	83	48	1033	1029
23	-5.4	-24.7	-15.1	0.0	33.1	0.0	0.0		42	84	46	1028	1021
24	-9.8	-16.6	-13.2	0.0	31.2	0.0	0.0		43	69	51	1028	1023
25	-6.1	-22.5	-14.3	0.0	32.3	0.0	0.0		42	81	48	1025	1008
26	-5.8	-13.0	-9.4	0.0	27.4	0.0	0.0		43	86	48	1010	1006
27	-3.8	-14.9	-9.4	0.0	27.4	0.0	0.0		43	74	35	1014	1010
28	-3.0	-19.7	-11.4	0.0	29.4	0.0	0.0		43	87	43	1016	1011
29	2.9	-15.5	-6.3	0.0	24.3	0.0	0.0		42	87	62	1011	1002
30	-4.7	-21.1	-12.9	0.0	30.9	0.0	0.0		42	79	41	1026	1007
31	-9.2	-24.2	-16.7	0.0	34.7	0.0	0.0		42	79	42	1029	1021
Total				0.0	910.3	0.0	7.3						
Avg	-4.3	-18.4	-11.4				26.1	Cumulative ppt 2014					
Extreme	10.1	-35.8					4.2		50	93	35	1033	996
Date	17	1					4		6	10	27	1	17
Site Extreme	17.3	-28.1					19.0						
Date	30/2012	18/2013					2012						

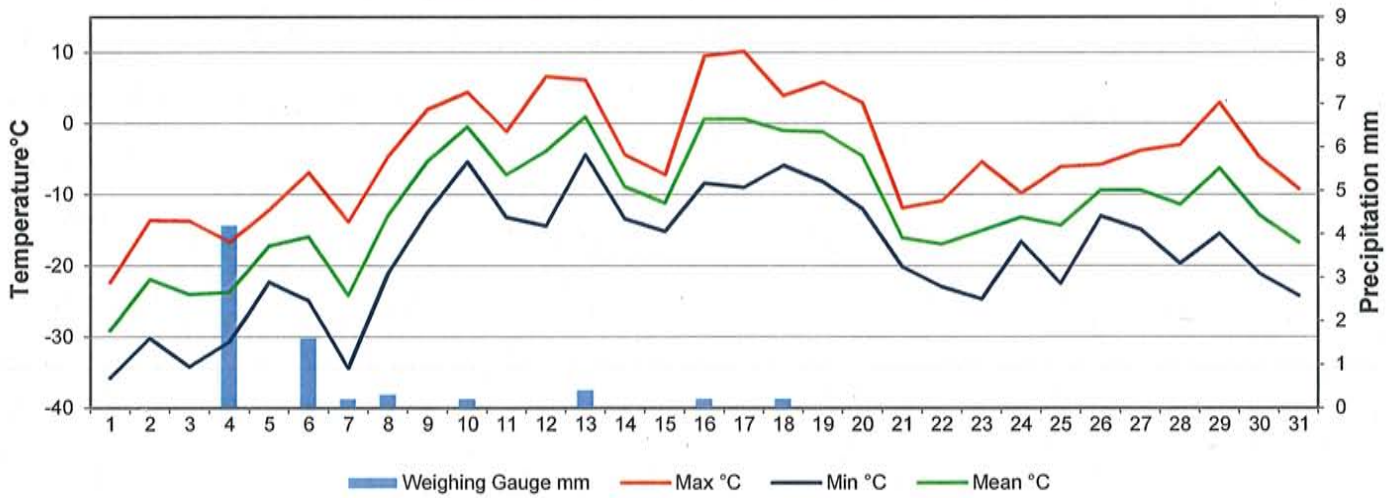


Agriculture and Agri-Food Canada

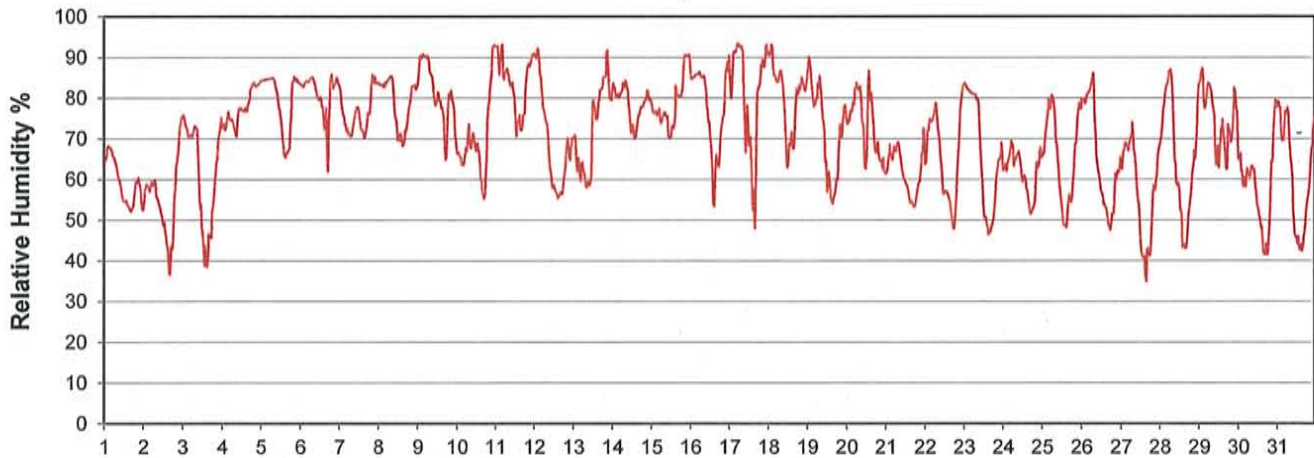
Agriculture et Agroalimentaire Canada



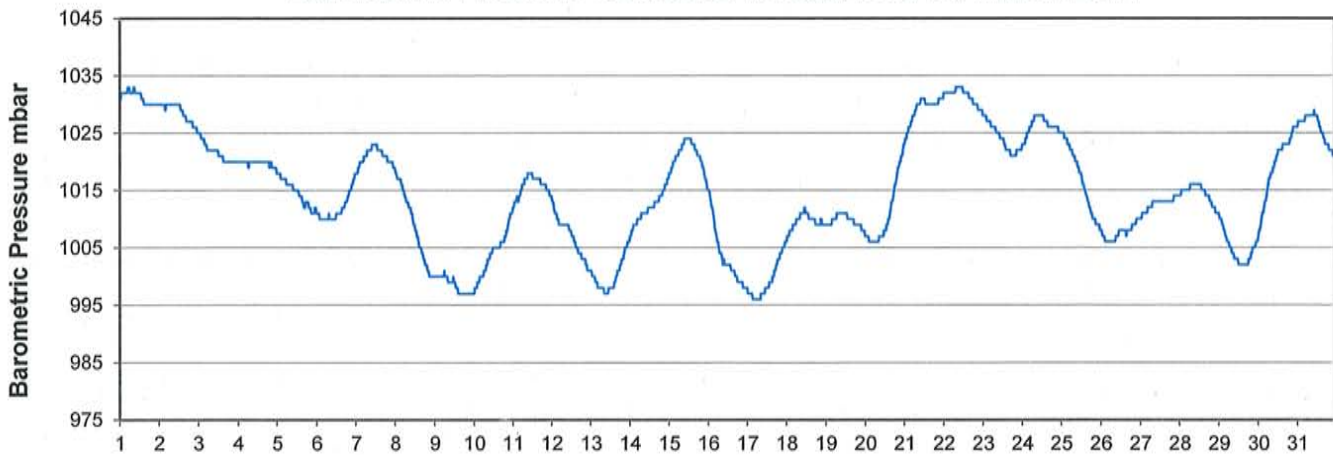
Temperature and Precipitation for March 2014



Relative Humidity for March 2014



Barometric Pressure Corrected to Sea Level for March 2014





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CONSERVATION LEARNING CENTRE

Saskatchewan 53.03°N 105.77°W Estab. 2011

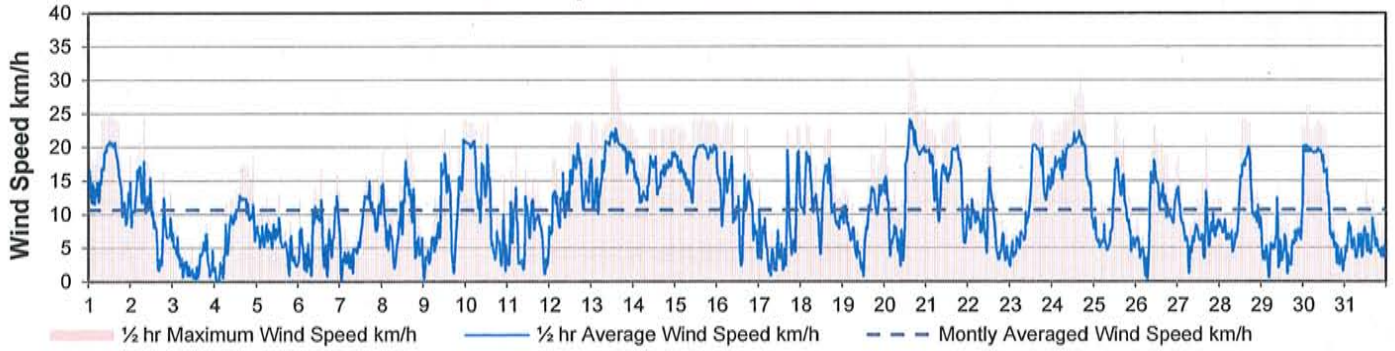
Preliminary **March 2014**

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	25.0	WNW	11:57	-26.0	-2.5	-2.5	-1.5	0.0	1.0	2.0	4.5	12	10.6	12.8	2.2
2	24.3	NW	8:20	-19.5	-3.0	-2.5	-2.0	0.0	1.0	2.0	4.5	12	10.6	12.8	1.9
3	9.8	S	3:21	-16.5	-3.0	-3.0	-2.0	0.0	1.0	2.0	4.5	12	9.0	11.7	4.4
4	18.8	ESE	22:22	-13.0	-3.5	-3.0	-2.0	0.0	1.0	2.0	4.5	12	0.0	8.2	7.4
5	13.1	NE	13:18	-8.5	-3.0	-3.0	-2.0	-0.5	1.0	2.0	4.5	12	5.3	11.0	4.5
6	16.9	ENE	13:41	-7.5	-3.0	-3.0	-2.0	-0.5	1.0	2.0	4.5	12	2.4	7.8	5.4
7	18.3	S	17:23	-11.5	-2.5	-2.5	-2.0	-0.5	1.0	2.0	4.5	13	10.0	15.3	3.4
8	23.6	S	14:18	-10.5	-2.5	-2.5	-2.0	-0.5	1.0	2.0	4.5	13	4.8	11.3	7.4
9	24.1	W	23:00	-6.0	-2.0	-2.0	-1.5	-0.5	1.0	2.0	4.5	13	5.5	11.5	6.4
10	24.1	W	0:11	-4.0	-2.0	-2.0	-1.5	-0.5	1.0	2.0	4.5	13	11.2	14.3	2.1
11	20.0	NW	5:12	-4.0	-1.5	-1.5	-1.5	-0.5	1.0	2.0	4.5	13	5.6	11.3	6.8
12	23.9	WSW	15:00	-6.0	-1.5	-1.5	-1.5	-0.5	1.0	2.0	4.5	13	11.1	14.4	3.1
13	32.2	WNW	11:45	-0.5	-1.5	-1.5	-1.0	-0.5	1.0	2.0	4.5	13	3.3	10.1	7.4
14	23.3	E	19:14	-8.5	-1.0	-1.5	-1.0	-0.5	0.5	2.0	4.0	14	4.0	12.2	7.6
15	24.3	S	15:52	-12.5	-1.0	-1.0	-1.0	-0.5	1.0	2.0	4.5	15	0.3	9.7	8.7
16	24.1	S	4:58	-2.5	-1.5	-1.5	-1.5	-1.0	0.5	1.5	3.5	14	8.7	14.9	3.0
17	23.2	NW	22:24	-6.5	-1.0	-1.0	-1.0	-0.5	1.0	2.0	4.0	14	8.4	15.1	5.2
18	24.3	SSW	15:07	-5.0	-1.0	-1.0	-1.0	-0.5	0.5	1.5	4.0	15	9.0	15.4	5.4
19	22.0	S	21:28	-5.0	-1.0	-1.0	-1.0	-0.5	0.5	2.0	4.0	15	5.8	13.8	7.7
20	33.5	N	14:55	-2.5	-1.0	-1.0	-1.0	-0.5	0.5	1.5	4.0	15	1.5	9.6	8.2
21	25.6	NNE	0:01	-17.5	-1.0	-1.0	-0.5	-0.5	0.5	2.0	4.0	14	11.9	17.8	2.8
22	23.9	NW	12:41	-18.5	-1.0	-1.0	-0.5	0.0	1.0	2.0	4.0	13	12.0	18.1	2.9
23	25.2	W	15:00	-20.0	-1.0	-1.0	-1.0	0.0	1.0	2.0	4.0	13	12.0	18.5	3.6
24	30.9	NW	16:55	-15.5	-1.5	-1.5	-1.0	0.0	1.0	2.0	4.0	13	12.2	18.6	3.2
25	24.3	SW	12:20	-17.5	-1.5	-1.5	-1.0	0.0	1.0	2.0	4.0	13	11.0	16.7	7.5
26	23.2	NE	10:47	-10.5	-1.5	-1.5	-1.0	0.0	1.0	2.0	4.0	13	9.3	17.4	5.2
27	21.7	WNW	16:42	-12.0	-1.5	-1.5	-1.0	0.0	1.0	2.0	4.0	13	11.6	18.4	4.4
28	24.3	WSW	14:51	-19.5	-1.5	-1.5	-1.0	0.0	1.0	2.0	4.0	13	12.4	20.3	2.8
29	23.2	N	23:58	-6.5	-1.5	-1.5	-1.0	0.0	0.5	1.5	4.0	13	3.3	12.8	9.8
30	28.6	N	1:58	-16.5	-1.5	-1.5	-1.0	0.0	0.5	1.5	4.0	13	6.9	15.6	10.1
31	15.0	SE	17:26	-18.0	-1.5	-1.5	-1.0	0.0	0.5	1.5	4.0	12	11.3	20.1	4.4
Total													241.0	437.5	164.9
Mean				-11.2	-1.7	-1.7	-1.3	-0.3	0.9	1.9	4.2	13.2			
Extreme	33.5	N	14:55												
Date	20														

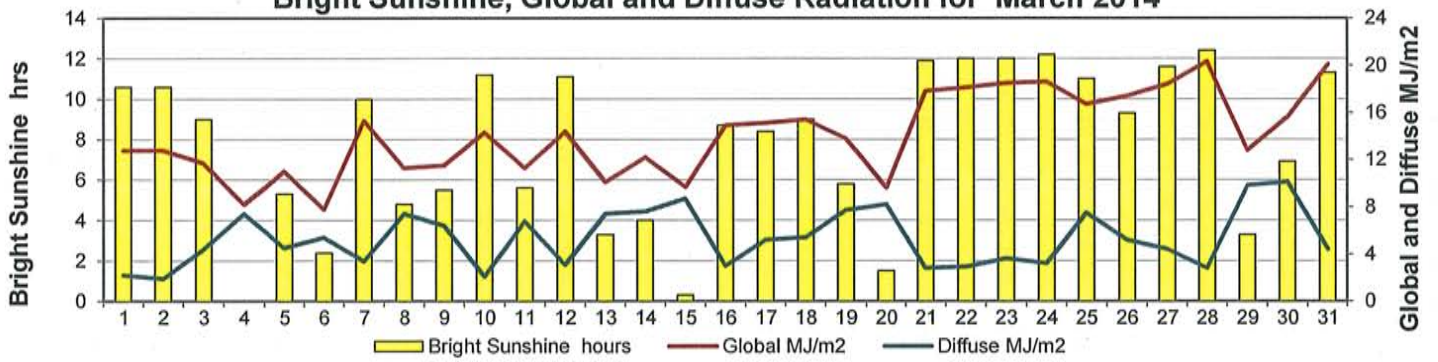
GLOSSARY OF TERMS

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		
Heating	(18°C-Tm); if Tm ≥ 18°C then HDD = 0		
Cooling	(Tm-18°C); if Tm ≤ 18°C then CDD = 0	Diffuse	is radiation reaching the earth's surface after having been scattered from the direct solar beam
T	Trace of Precipitation	Global	is the sum of the direct solar and diffuse radiation
SOG	Depth of snow-on-the-ground	Relative Humidity	The ratio of the air's water vapour content to its water vapour capacity which changes with temperature.
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

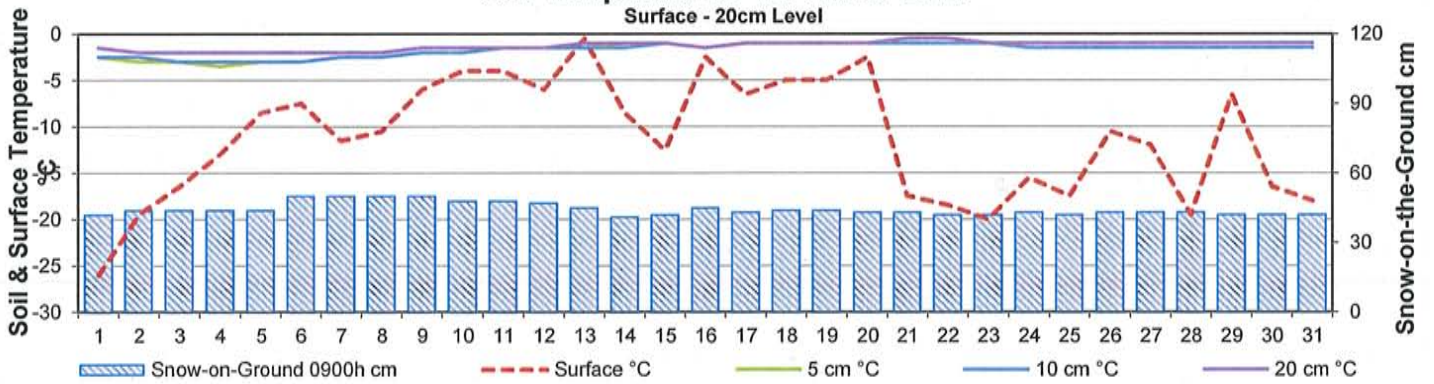
Wind Speed for March 2014



Bright Sunshine, Global and Diffuse Radiation for March 2014



Soil Temperatures for March 2014



Soil Temperatures for March 2014

