



SRC CLIMATE REFERENCE STATION DAILY DATA REPORT

CONSERVATION LEARNING CENTRE

Saskatchewan 53.03°N 105.77°W Estab. 2011

Preliminary

May 2016

Day	Temperature			Degree-days			Precipitation			Relative Humidity		Station Pressure <i>corrected to sea level</i>	
	Max	Min	Mean	Growing	Heating	Cooling	Weighing Gauge	Tipping Bucket	Notes	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	mm		%	%	mbar	mbar
1	21.9	4.0	13.0	8.0	5.0	0.0	0.0	0.0		68	19	1024	1015
2	26.4	5.1	15.8	10.8	2.2	0.0	0.0	0.0		91	17	1016	1013
3	26.0	8.4	17.2	12.2	0.8	0.0	0.0	0.0		83	22	1017	1012
4	32.4	10.5	21.5	16.5	0.0	3.5	0.0	0.0	Spring maintenance	71	11	1012	1003
5	24.2	10.5	17.4	12.4	0.6	0.0	0.1	0.0		70	28	1014	1004
6	17.3	5.1	11.2	6.2	6.8	0.0	0.0	0.0		81	23	1019	1014
7	26.2	3.0	14.6	9.6	3.4	0.0	0.1	0.0		82	13	1017	1003
8	29.2	9.6	19.4	14.4	0.0	1.4	0.0	0.0		61	20	1003	992
9	13.4	6.6	10.0	5.0	8.0	0.0	3.0	3.2		86	34	1013	999
10	7.5	3.6	5.6	0.6	12.4	0.0	8.4	9.3		88	74	1018	1013
11	4.7	1.0	2.9	0.0	15.1	0.0	5.1	5.5		90	74	1021	1017
12	4.6	-0.3	2.2	0.0	15.8	0.0	0.0	0.0		82	62	1026	1020
13	12.9	-0.5	6.2	1.2	11.8	0.0	0.0	0.0		80	29	1027	1024
14	17.0	2.4	9.7	4.7	8.3	0.0	0.0	0.0		77	24	1024	1017
15	21.3	0.4	10.9	5.9	7.1	0.0	0.0	0.0		91	22	1017	1013
16	24.2	3.9	14.1	9.1	3.9	0.0	0.0	0.0		86	17	1018	1015
17	23.7	8.6	16.2	11.2	1.8	0.0	0.0	0.0		67	20	1019	1012
18	25.4	7.1	16.3	11.3	1.7	0.0	0.0	0.0		89	24	1011	1005
19	25.5	7.2	16.4	11.4	1.6	0.0	0.0	0.0		93	24	1007	1005
20	23.8	12.1	18.0	13.0	0.0	0.0	0.0	0.0		73	39	1014	1007
21	25.0	11.2	18.1	13.1	0.0	0.1	0.0	0.0		75	33	1014	1002
22	20.2	12.0	16.1	11.1	1.9	0.0	0.0	0.0		79	40	1001	997
23	16.5	6.3	11.4	6.4	6.6	0.0	1.1	1.1		91	50	1007	996
24	11.1	7.1	9.1	4.1	8.9	0.0	0.0	0.0		92	75	1012	1007
25	20.1	5.9	13.0	8.0	5.0	0.0	0.0	0.0		95	40	1013	1011
26	24.9	8.3	16.6	11.6	1.4	0.0	0.0	0.0		89	26	1011	1009
27	17.7	9.5	13.6	8.6	4.4	0.0	0.0	0.0		77	54	1013	1011
28	17.7	7.1	12.4	7.4	5.6	0.0	0.2	0.0		90	54	1014	1011
29	15.0	8.1	11.6	6.6	6.4	0.0	1.5	1.5		93	69	1012	1010
30	18.0	7.5	12.8	7.8	5.2	0.0	0.0	0.0		91	50	1016	1012
31	16.2	7.9	12.1	7.1	5.9	0.0	0.0	0.0		91	47	1017	1015
Total				255.3	157.6	5.0	19.5	20.7					
Avg	19.7	6.4	13.1	Spring maintenance on May 4 (dessicant recharge, tipping bucket calibration)			74.6	Cumulative ppt					
Extreme	32.4	-0.5					8.4	9.3	0	95	11	1027	992
Date	4	13					10	10		25	4	13	8

Correction factor of -5.1% applied to tipping bucket daily totals as the result of calibration test (May 4, 2016)

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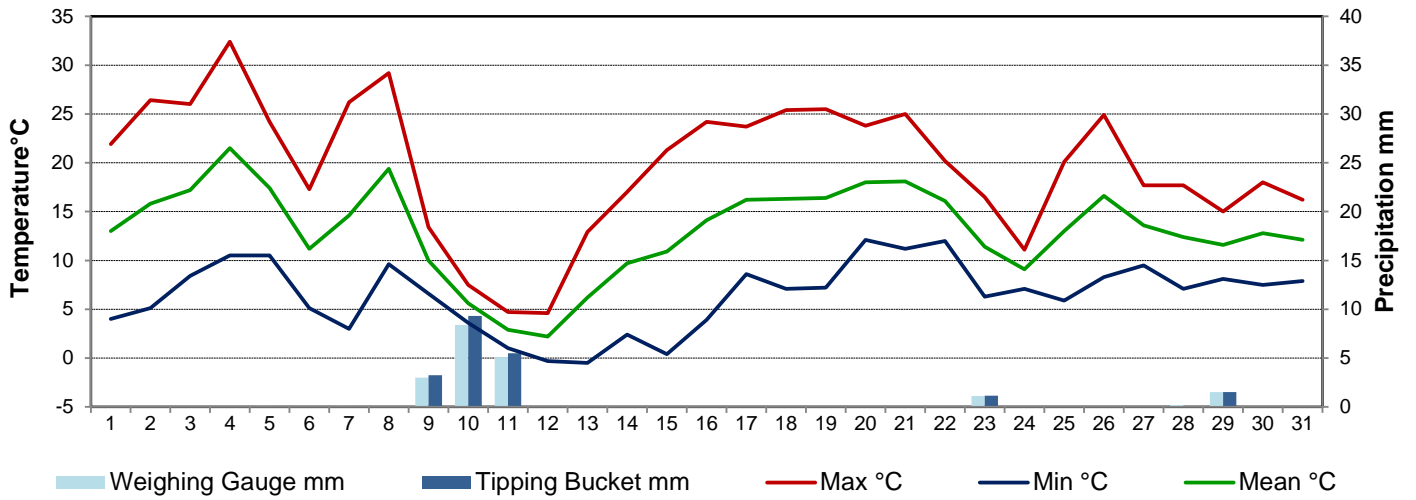
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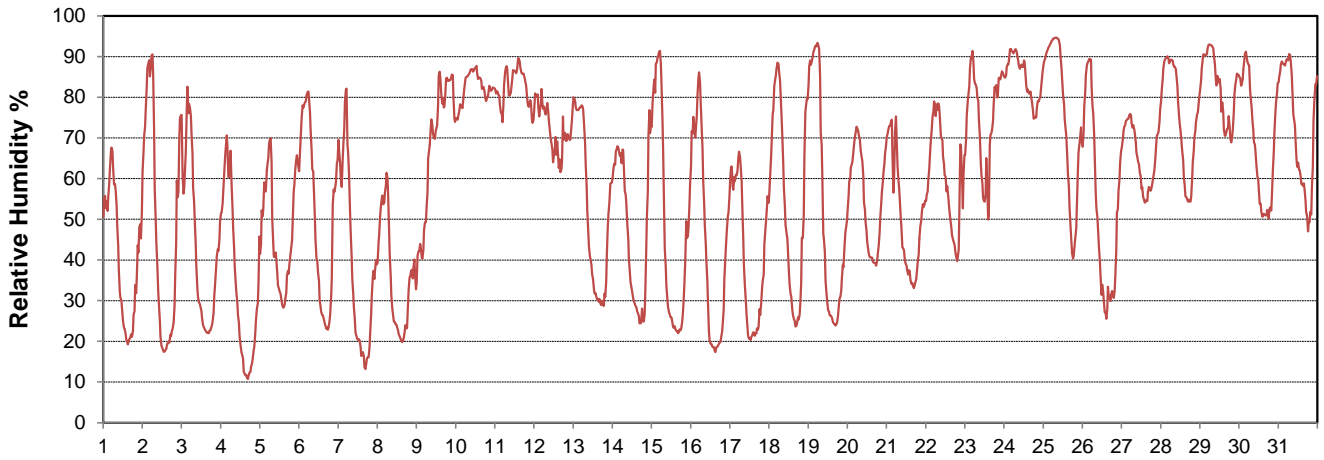
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WHEN MEASUREMENTS MATTER



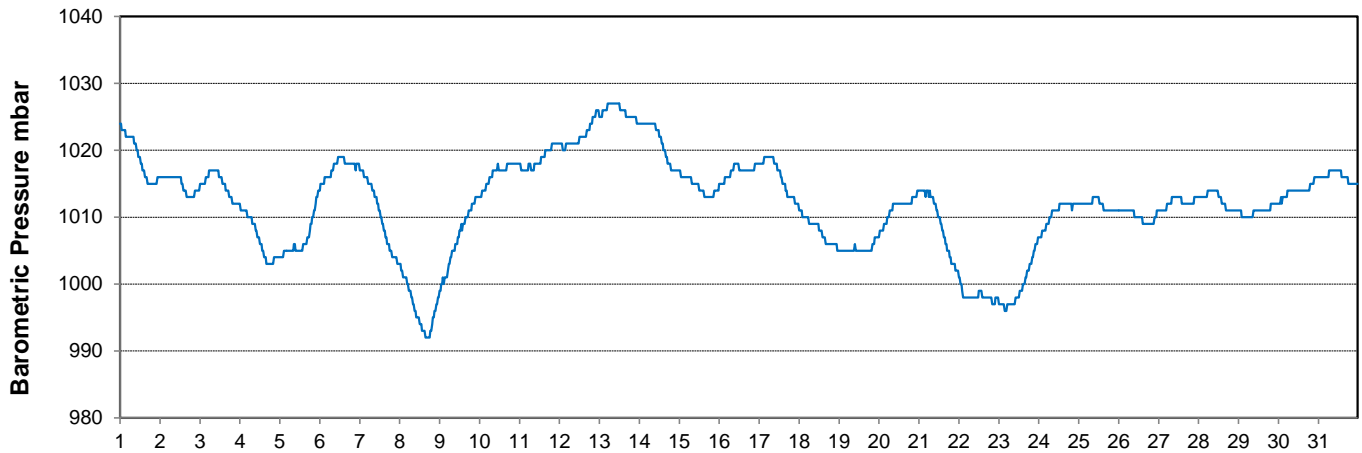
Temperature and Precipitation for May 2016



Relative Humidity for May 2016



Barometric Pressure Corrected to Sea Level for May 2016





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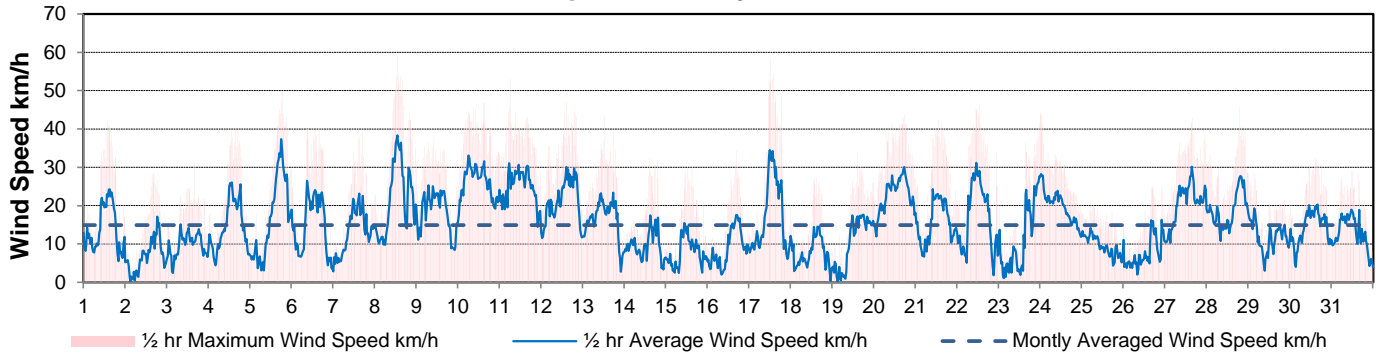
May 2016

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 ²	MJ/m ²
1	42.3	W	13:57	14.5	5.0	5.0	5.0	3.5	2.5	2.5	4.0	34	11.3	23.2	7.6
2	28.4	NW	16:03	14.0	5.5	5.5	5.0	4.0	2.5	2.5	4.0	34	14.1	25.2	4.8
3	31.1	SE	15:56	13.5	6.5	6.5	6.0	4.5	3.0	2.5	3.5	34	14.1	24.0	6.4
4	40.1	SSW	15:21	21.5	7.5	7.5	6.5	4.5	3.0	2.5	3.5	34	14.2	26.0	4.8
5	49.8	NNE	18:10	18.5	8.5	8.0	7.5	5.0	3.5	2.5	3.5	34	10.2	20.1	9.5
6	40.5	NW	15:48	12.0	8.0	8.0	7.5	5.5	3.5	3.0	3.5	34	12.2	23.3	7.9
7	39.0	WSW	16:48	16.0	7.0	7.0	7.0	5.5	4.0	3.0	3.5	34	13.6	22.8	9.9
8	59.1	S	12:32	19.0	8.0	8.0	7.5	6.0	4.0	3.0	3.5	34	12.3	22.8	7.9
9	37.5	NNW	9:51	8.5	8.5	8.5	8.0	6.0	4.0	3.0	3.5	34	0.3	5.3	4.6
10	46.9	NNE	14:50	4.5	7.0	7.0	7.0	6.0	4.0	3.0	3.5	34	0.0	4.4	3.8
11	53.1	NNE	6:27	3.0	6.0	5.5	6.0	5.0	4.0	3.0	3.0	35	0.8	6.3	5.5
12	47.3	N	14:19	2.0	4.5	4.5	5.0	4.5	3.5	2.5	2.0	35	3.2	12.9	9.9
13	43.2	NNW	12:20	7.0	4.5	4.5	5.0	5.0	4.0	3.5	3.0	35	10.0	22.6	9.2
14	32.4	WNW	14:28	9.0	5.5	5.5	6.0	5.5	4.5	3.5	3.5	35	13.8	24.4	9.4
15	30.1	N	14:55	14.0	6.0	6.0	6.0	5.5	4.5	4.0	3.5	35	14.5	27.3	6.2
16	34.4	WSW	16:22	13.5	7.0	7.0	7.0	5.5	4.5	4.0	3.5	35	14.7	27.2	6.3
17	58.3	S	12:22	18.5	8.0	8.0	7.5	6.0	4.5	4.0	4.0	35	8.2	19.7	9.9
18	27.4	WNW	14:54	15.0	8.5	8.0	8.0	6.5	5.0	4.0	4.0	35	13.7	24.9	9.1
19	33.5	NE	14:04	17.5	9.0	9.0	8.5	6.5	5.0	4.0	4.0	35	13.2	25.4	7.4
20	43.9	ENE	17:01	15.5	10.0	10.0	9.0	7.0	5.0	4.0	4.0	34	12.8	24.4	10.4
21	42.6	SSE	13:11	18.0	10.5	10.0	9.5	7.5	5.5	4.0	4.0	34	12.8	24.1	8.5
22	46.3	SW	12:36	16.0	11.5	11.0	10.0	8.0	5.5	4.5	4.0	34	12.0	24.4	8.3
23	44.2	ENE	23:33	13.0	10.5	10.5	10.0	8.0	5.5	4.5	4.0	33	2.7	11.1	7.0
24	43.7	ENE	0:23	8.5	10.0	10.0	9.5	8.0	6.0	4.5	3.5	33	0.4	7.7	6.8
25	21.0	ENE	4:37	9.0	9.5	9.5	9.5	8.0	6.0	4.5	4.0	33	7.6	17.9	7.5
26	25.3	NE	16:03	17.5	10.0	10.0	9.5	8.0	6.0	5.0	4.0	33	13.7	28.0	6.8
27	42.8	ESE	15:33	14.0	11.5	11.0	10.5	8.5	6.5	5.0	4.0	33	11.7	23.9	7.5
28	45.7	ENE	18:56	10.5	11.0	11.0	10.5	8.5	6.5	5.0	4.0	32	6.3	16.1	9.4
29	28.4	ESE	3:27	13.5	11.0	11.0	10.5	9.0	6.5	5.0	4.0	32	4.3	13.0	10.6
30	32.7	ENE	14:29	13.0	11.0	11.0	10.5	9.0	6.5	5.0	4.0	32	10.9	25.5	9.7
31	29.1	NNE	11:05	11.5	11.5	11.5	11.0	9.0	7.0	5.5	4.0	32	4.0	38.6	19.6
Total													293.6	642.5	252.2
Mean				13.0	8.3	8.2	7.9	6.4	4.7	3.8	3.7	33.9			
Extreme	59.1	S	12:32												
Date	8														

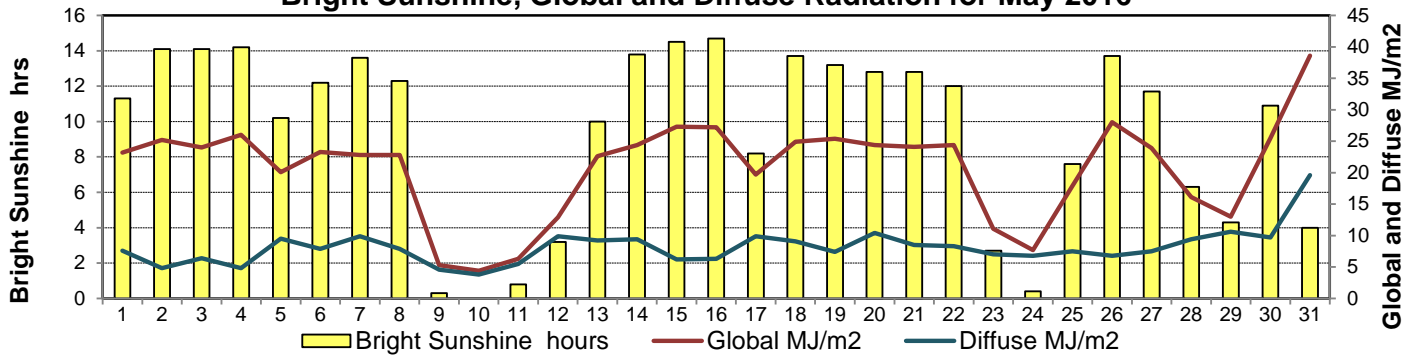
GLOSSARY OF TERMS

Degree-days	Radiation
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	
Red Cell no data available	Relative Humidity The ratio of the air's water vapour content to its water vapour capacity which changes with temperature.
Red Number manual calculation	Air Pressure The force exerted by the weight of a column of air above a given point
	Wind Gust The daily highest instantaneous value recorded irrespective of direction and/or duration

Wind Speed for May 2016

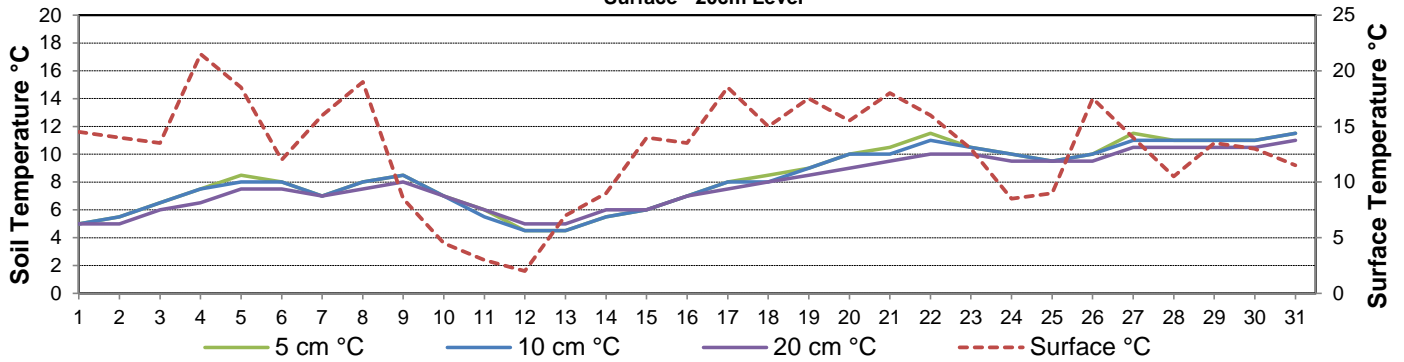


Bright Sunshine, Global and Diffuse Radiation for May 2016



Soil Temperatures for May 2016

Surface - 20cm Level



Soil Temperatures for May 2016

50 - 300cm Level

