



SRC CLIMATE REFERENCE STATION DAILY DATA REPORT

CONSERVATION LEARNING CENTRE

Saskatchewan 53.03°N 105.77°W Estab. 2011

Preliminary

June 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	21.6	4.8	13.2	8.2	4.8	0.0	0.0	0.0		93	31	1015	1009
2	24.8	12.3	18.6	13.6	0.0	0.6	7.7	8.2		82	30	1009	1003
3	22.1	11.3	16.7	11.7	1.3	0.0	1.0	1.5		94	41	1014	1004
4	25.3	10.9	18.1	13.1	0.0	0.1	0.0	0.0		68	17	1016	1012
5	22.4	11.7	17.1	12.1	0.9	0.0	1.2	1.3		74	28	1017	1012
6	22.0	6.4	14.2	9.2	3.8	0.0	0.0	0.0		91	35	1019	1013
7	24.7	11.0	17.9	12.9	0.1	0.0	0.0	0.0		71	32	1012	1005
8	27.9	13.0	20.5	15.5	0.0	2.5	0.0	0.0		83	32	1006	1004
9	30.1	14.5	22.3	17.3	0.0	4.3	0.0	0.0		82	27	1004	998
10	17.7	8.6	13.2	8.2	4.8	0.0	0.1	0.0		76	60	1017	1001
11	20.4	4.7	12.6	7.6	5.4	0.0	5.1	5.3		92	32	1019	1013
12	22.6	11.8	17.2	12.2	0.8	0.0	1.7	2.5		90	27	1013	1008
13	25.8	8.9	17.4	12.4	0.6	0.0	0.0	0.0		88	29	1010	1005
14	27.6	10.5	19.1	14.1	0.0	1.1	0.0	0.0		90	29	1005	1002
15	20.8	11.0	15.9	10.9	2.1	0.0	0.8	0.8		90	30	1010	1001
16	20.5	8.0	14.3	9.3	3.7	0.0	12.3	12.0		92	58	1010	1002
17	18.6	6.0	12.3	7.3	5.7	0.0	0.0	0.0		88	42	1015	1008
18	24.7	7.5	16.1	11.1	1.9	0.0	0.0	0.0		85	26	1016	1010
19	18.6	10.8	14.7	9.7	3.3	0.0	8.4	8.7		87	33	1015	1005
20	22.4	7.4	14.9	9.9	3.1	0.0	0.0	0.0		80	28	1020	1015
21	24.5	6.4	15.5	10.5	2.5	0.0	0.0	0.0		94	28	1016	1011
22	25.8	8.1	17.0	12.0	1.0	0.0	0.0	0.0		93	28	1014	1011
23	27.8	11.4	19.6	14.6	0.0	1.6	0.0	0.0		90	31	1013	1006
24	25.4	16.8	21.1	16.1	0.0	3.1	0.1	0.2		82	41	1007	1004
25	22.6	13.5	18.1	13.1	0.0	0.1	0.2	0.0		90	57	1007	1002
26	15.2	11.4	13.3	8.3	4.7	0.0	5.6	5.9		90	82	1021	1008
27	25.0	11.8	18.4	13.4	0.0	0.4	0.6	0.8		93	47	1023	1019
28	28.7	15.5	22.1	17.1	0.0	4.1	1.0	1.1	equipment maintenance	90	34	1019	1016
29	23.7	13.1	18.4	13.4	0.0	0.4	0.0	0.0		91	37	1023	1017
30	22.0	7.9	15.0	10.0	3.0	0.0	0.0	0.0		93	38	1024	1018
Total				354.8	53.5	18.3	45.8	48.2					
Avg	23.4	10.2	16.8				120.4	Cumulative ppt					
Extreme	30.1	4.7					12.3	12.0		94	17	1024	998
Date	9	11					16	16		3	4	30	9

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

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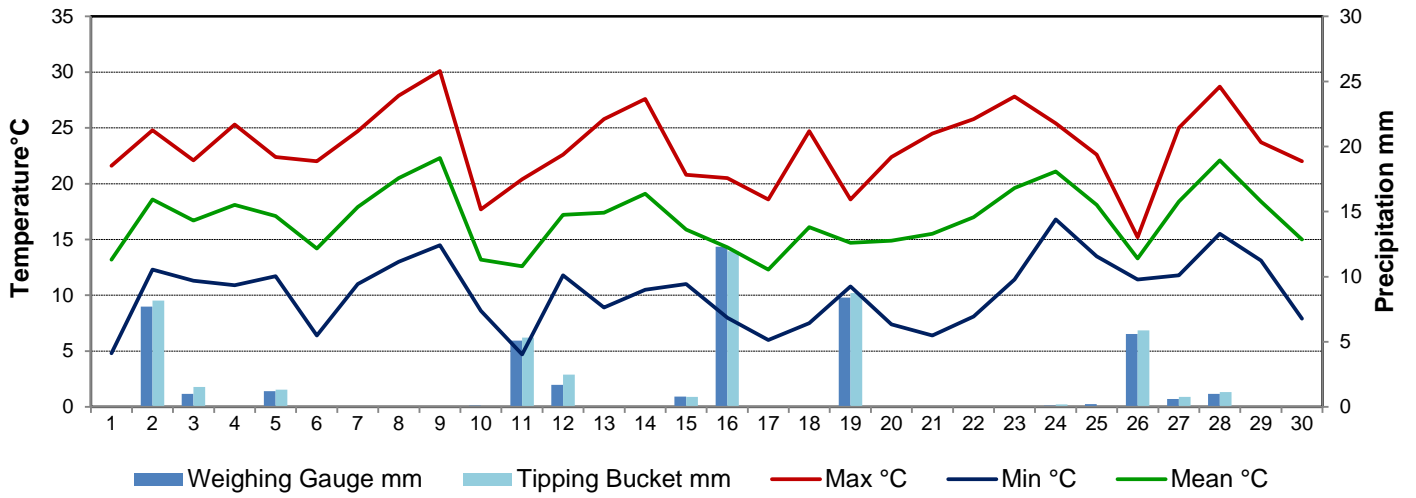


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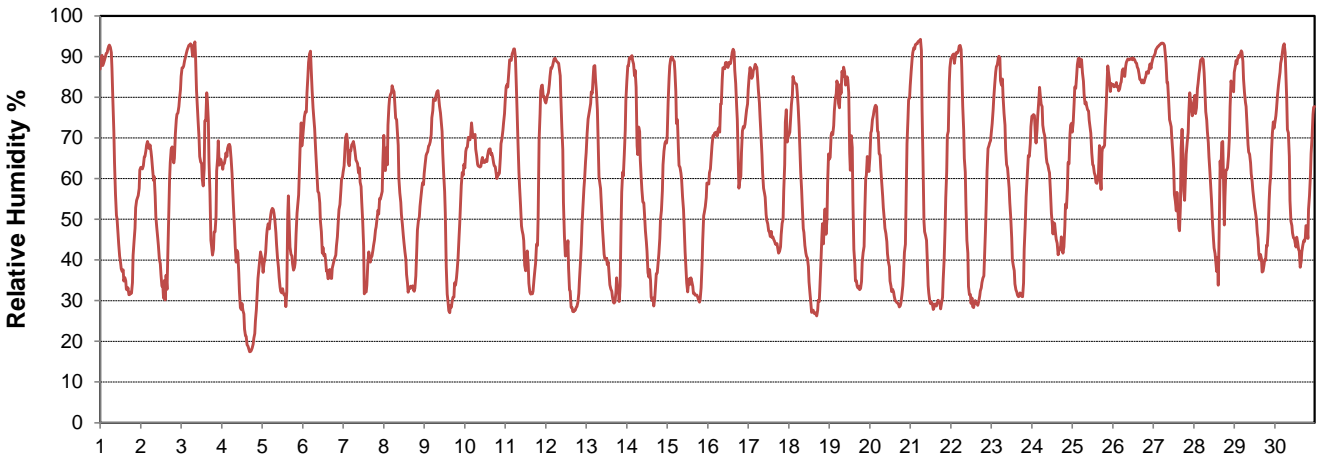
Agriculture et Agroalimentaire Canada



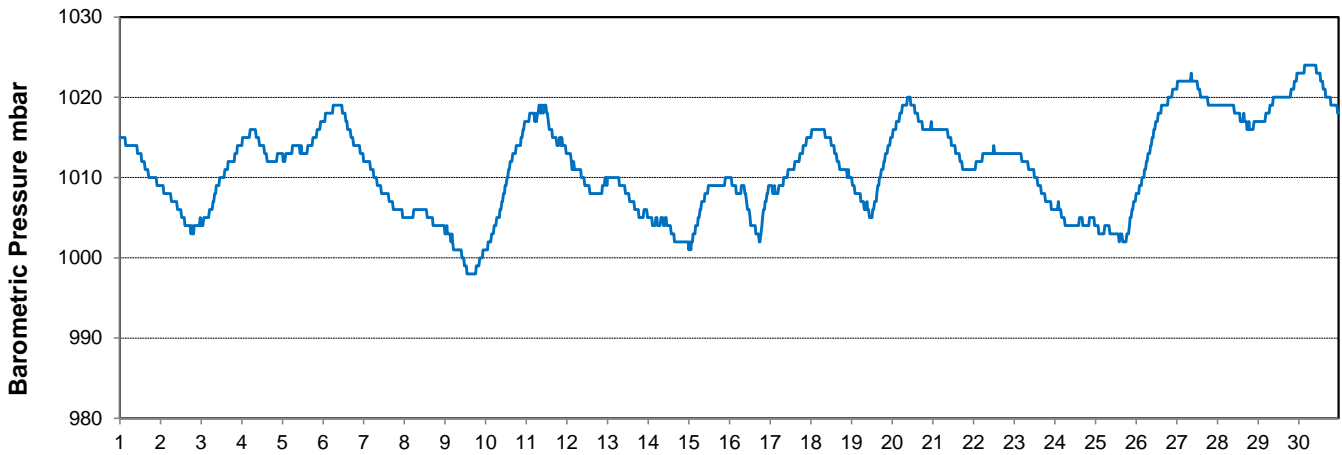
Temperature and Precipitation for June 2016



Relative Humidity for June 2016



Barometric Pressure Corrected to Sea Level for June 2016





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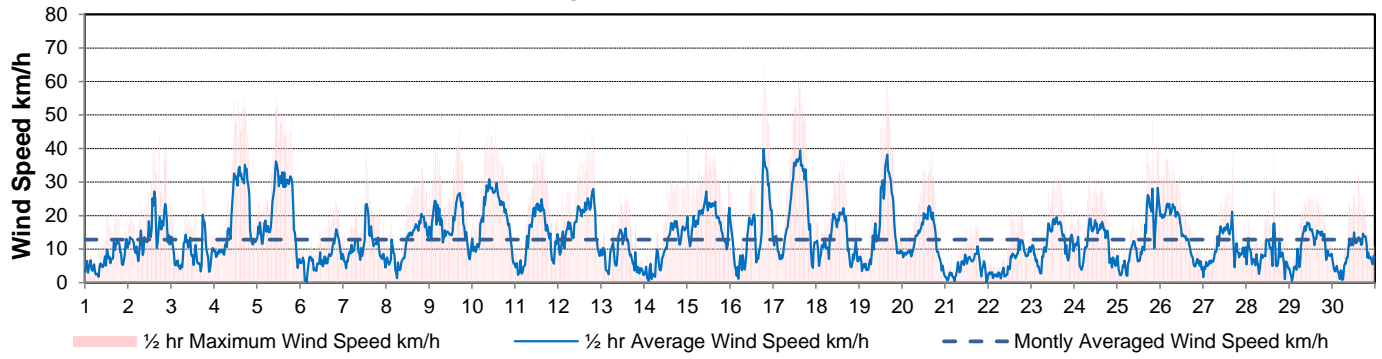
June 2016

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	21.4	S	16:18	14.5	10.5	10.5	10.5	9.0	7.0	5.5	4.0	31	11.3	22.8	9.7
2	43.3	ESE	17:37	18.0	11.5	11.5	11.0	9.0	7.0	5.5	4.0	31	7.5	18.6	9.0
3	33.3	NW	17:53	15.0	12.0	12.0	11.0	9.5	7.0	5.5	4.0	31	9.2	18.8	7.9
4	55.0	W	16:22	20.5	12.0	12.0	11.5	9.5	7.5	5.5	4.0	31	15.2	27.5	7.0
5	55.0	N	11:02	19.0	12.5	12.0	12.0	10.0	7.5	6.0	4.0	31	13.9	24.9	7.8
6	24.7	SE	20:00	14.5	11.5	11.5	11.5	10.0	7.5	6.0	4.0	31	15.5	27.1	7.5
7	38.5	S	13:09	15.0	12.5	12.5	12.0	10.0	8.0	6.0	4.0	30	5.2	16.5	9.4
8	34.2	E	20:23	19.0	13.5	13.0	12.5	10.5	8.0	6.0	4.5	30	12.4	26.0	7.0
9	45.4	W	17:07	17.5	14.5	14.0	13.0	10.5	8.0	6.5	4.5	30	11.2	24.2	8.0
10	46.5	W	9:40	14.0	14.0	14.0	13.5	11.0	8.0	6.5	4.5	30	3.3	11.6	10.2
11	39.9	ESE	16:04	13.5	12.0	12.0	12.5	11.0	8.5	6.5	4.5	30	9.0	20.7	10.2
12	44.7	SSW	15:24	15.5	13.0	12.5	12.0	10.5	8.5	6.5	4.0	30	11.6	26.2	5.9
13	27.3	SSW	13:35	17.5	13.5	13.5	13.0	11.0	8.5	6.5	4.5	30	14.0	28.5	5.5
14	32.0	ESE	15:28	18.5	14.0	14.0	13.5	11.5	9.0	7.0	4.5	30	14.2	28.6	4.8
15	44.2	S	0:29	14.0	15.0	14.5	14.0	11.5	8.5	7.0	4.5	29	13.9	26.3	9.3
16	64.4	SW	18:51	12.5	14.0	14.0	13.5	12.0	9.0	7.0	4.5	29	3.9	9.4	6.4
17	59.5	WSW	14:25	15.0	12.5	13.0	13.0	11.5	9.0	7.0	4.5	31	14.5	27.5	7.4
18	36.6	WSW	13:56	18.5	13.0	13.0	13.0	11.5	9.5	7.5	4.5	30	13.2	27.4	6.8
19	59.6	NW	15:40	12.5	14.5	14.5	13.5	11.5	9.5	7.5	4.5	30	7.3	17.8	7.0
20	37.9	NW	16:58	16.0	13.0	13.0	13.0	12.0	9.5	7.5	4.5	32	16.3	30.6	4.4
21	17.9	SE	16:51	15.5	13.0	13.0	13.5	12.0	9.5	7.5	5.0	31	15.0	25.6	9.9
22	23.1	NNW	12:30	19.5	13.5	13.5	13.5	12.0	9.5	7.5	5.0	31	15.5	29.7	5.4
23	31.6	SW	15:51	21.0	14.5	14.5	14.0	12.0	9.5	8.0	5.0	31	14.0	28.7	5.8
24	32.5	SW	8:48	21.5	16.0	16.0	14.5	12.5	9.5	8.0	5.0	30	10.5	26.6	6.2
25	48.5	N	19:47	17.5	16.0	16.0	15.0	13.0	10.0	8.0	5.0	30	5.7	18.2	10.8
26	37.0	N	4:24	12.5	15.5	15.5	15.0	13.0	10.0	8.0	5.0	30	0.0	6.4	5.6
27	41.0	NW	16:32	17.0	14.5	14.0	14.0	12.5	10.0	8.0	4.5	31	9.4	22.2	8.3
28	39.7	NNW	15:16	20.5	15.5	15.5	15.0	13.0	10.5	8.5	5.0	31	4.7	21.4	5.8
29	26.5	NE	11:29	19.0	16.0	16.0	15.5	13.5	10.5	8.5	5.0	31	15.9	29.4	6.7
30	32.3	S	14:40	16.5	15.5	15.5	15.5	13.5	10.5	8.5	5.0	30	15.2	30.8	4.3
Total													328.5	700.0	220.0
Mean				16.7	13.6	13.6	13.2	11.3	8.8	7.0	4.5	30.4			
Extreme	64.4	SW	18:51												
Date	16														

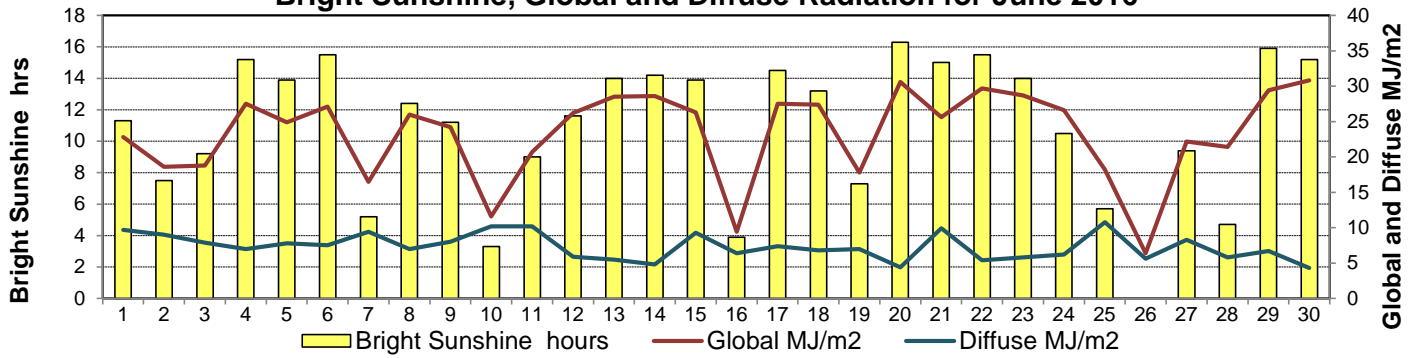
GLOSSARY OF TERMS

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 June 2016

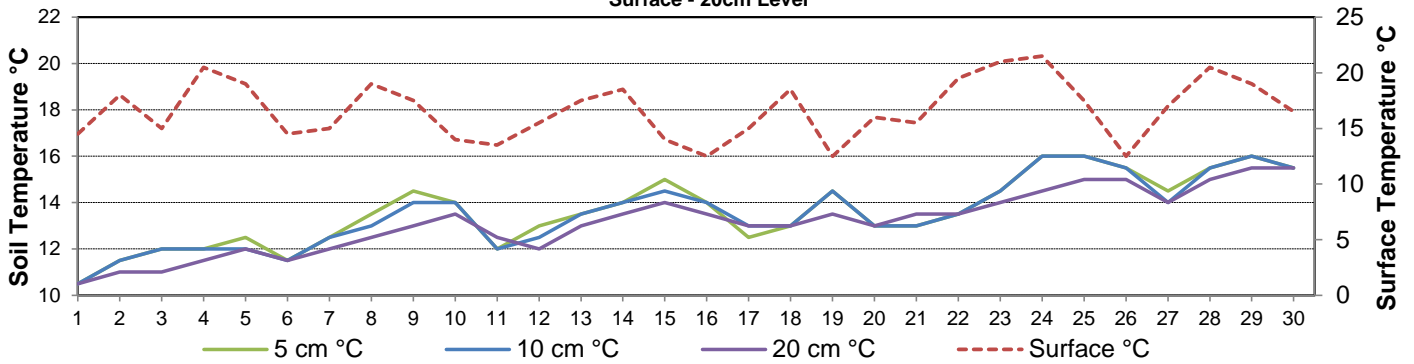


Bright Sunshine, Global and Diffuse Radiation for June 2016



Soil Temperatures for June 2016

Surface - 20cm Level



Soil Temperatures for June 2016

50 - 300cm Level

