



SRC CLIMATE REFERENCE STATION DAILY DATA REPORT

CONSERVATION LEARNING CENTRE

Saskatchewan 53.03°N 105.77°W Estab. 2011

Preliminary

July 2018

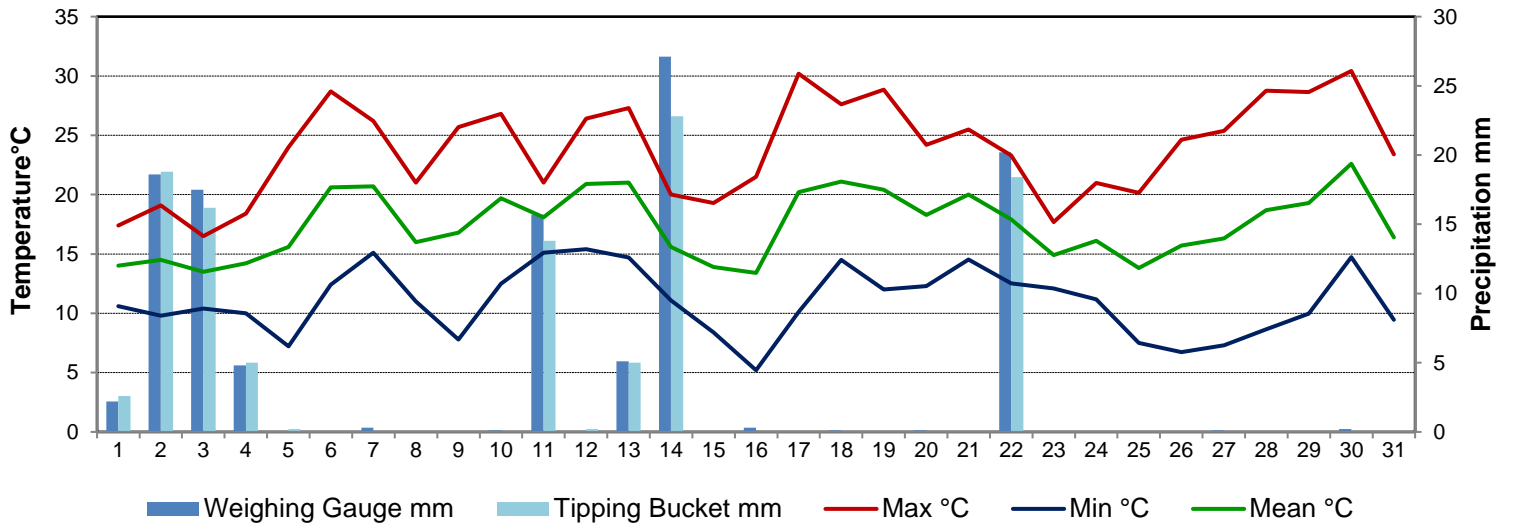
Day	Temperature			Degree-days			Precipitation			Relative Humidity		Station Pressure <i>corrected to sea level</i>	
	Max	Min	Mean	Growing	Heating	Cooling	Weighing Gauge	Tipping Bucket	Notes	Max ½ hr Avg	Min ½ hr Avg	Max ½ hr Avg	Min ½ hr Avg
	°C	°C	°C	5°C base	18°C base	18°C base	mm	mm		%	%	mbar	mbar
1	17.4	10.6	14.0	9.0	4.0	0.0	2.2	2.6		89	60	1005	1003
2	19.1	9.8	14.5	9.5	3.5	0.0	18.6	18.8		91	57	1010	1004
3	16.5	10.4	13.5	8.5	4.5	0.0	17.5	16.2		91	76	1015	1010
4	18.4	10.0	14.2	9.2	3.8	0.0	4.8	5.0		93	58	1023	1013
5	24.0	7.2	15.6	10.6	2.4	0.0	0.0	0.2		91	41	1027	1023
6	28.7	12.4	20.6	15.6	0.0	2.6	0.0	0.0		85	57	1022	1003
7	26.2	15.1	20.7	15.7	0.0	2.7	0.3	0.0		87	36	1010	1002
8	21.0	11.0	16.0	11.0	2.0	0.0	0.0	0.0		86	42	1018	1010
9	25.7	7.8	16.8	11.8	1.2	0.0	0.0	0.0		92	41	1021	1017
10	26.8	12.5	19.7	14.7	0.0	1.7	0.1	0.0		88	57	1017	1005
11	21.0	15.1	18.1	13.1	0.0	0.1	15.7	13.8		92	61	1008	1000
12	26.4	15.4	20.9	15.9	0.0	2.9	0.0	0.2		74	38	1013	1008
13	27.3	14.7	21.0	16.0	0.0	3.0	5.1	5.0		80	38	1014	1007
14	20.0	11.1	15.6	10.6	2.4	0.0	27.1	22.8		93	51	1014	1006
15	19.3	8.4	13.9	8.9	4.1	0.0	0.0	0.0		85	46	1017	1011
16	21.5	5.2	13.4	8.4	4.6	0.0	0.3	0.0		93	50	1020	1015
17	30.2	10.1	20.2	15.2	0.0	2.2	0.0	0.0		88	39	1015	1011
18	27.6	14.5	21.1	16.1	0.0	3.1	0.1	0.0		90	53	1011	1007
19	28.8	12.0	20.4	15.4	0.0	2.4	0.0	0.0		90	42	1014	1010
20	24.2	12.3	18.3	13.3	0.0	0.3	0.1	0.0		86	43	1015	1014
21	25.5	14.5	20.0	15.0	0.0	2.0	0.0	0.0		76	42	1013	1010
22	23.3	12.5	17.9	12.9	0.1	0.0	20.2	18.4		86	43	1015	1010
23	17.7	12.1	14.9	9.9	3.1	0.0	0.0	0.0		77	59	1018	1015
24	21.0	11.2	16.1	11.1	1.9	0.0	0.0	0.0		86	52	1020	1019
25	20.1	7.5	13.8	8.8	4.2	0.0	0.0	0.0		84	46	1023	1020
26	24.6	6.7	15.7	10.7	2.3	0.0	0.0	0.0		89	36	1023	1021
27	25.4	7.3	16.3	11.3	1.7	0.0	0.1	0.0		90	34	1021	1019
28	28.8	8.6	18.7	13.7	0.0	0.7	0.0	0.0		90	34	1019	1017
29	28.6	10.0	19.3	14.3	0.0	1.3	0.0	0.0		90	33	1018	1016
30	30.4	14.7	22.6	17.6	0.0	4.6	0.2	0.0		86	44	1016	1012
31	23.4	9.4	16.4	11.4	1.6	0.0	0.0	0.0		88	50	1021	1016
Total				385.2	47.4	29.6	112.4	103.0					
Avg	23.8	11.0	17.4				236.0	Cumulative ppt					
Extreme	30.4	5.2					27.1	22.8		93	33	1027	1000
Date	30	16					14	14		4	29	5	11

max/min air temperatures are estimates (July 19 & July 21-31)

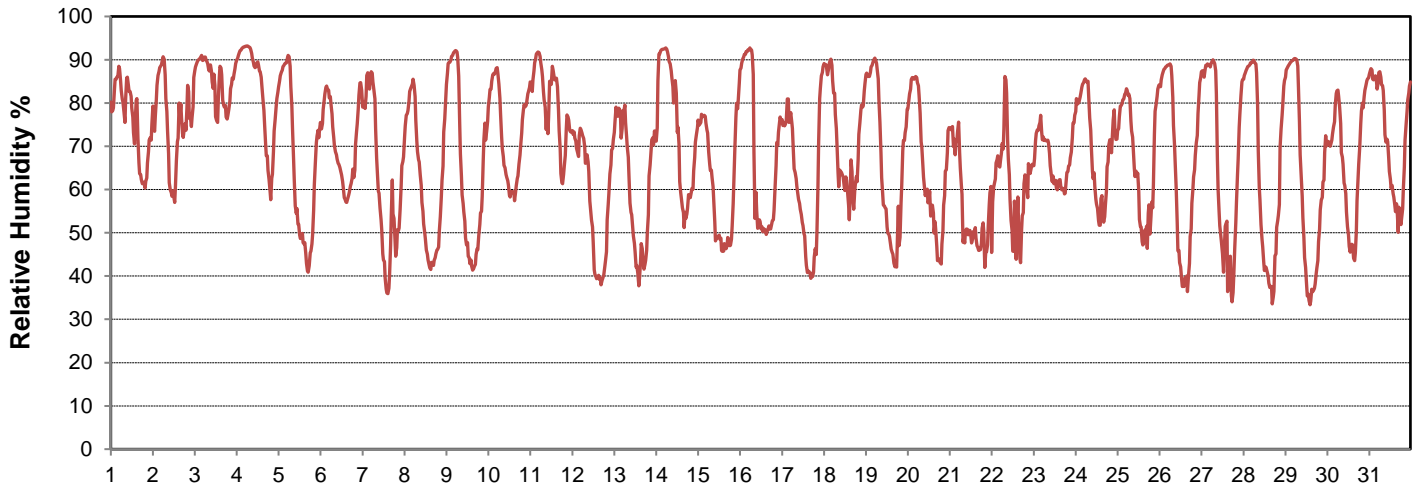
SRC proudly recognizes the following CRS supporters:



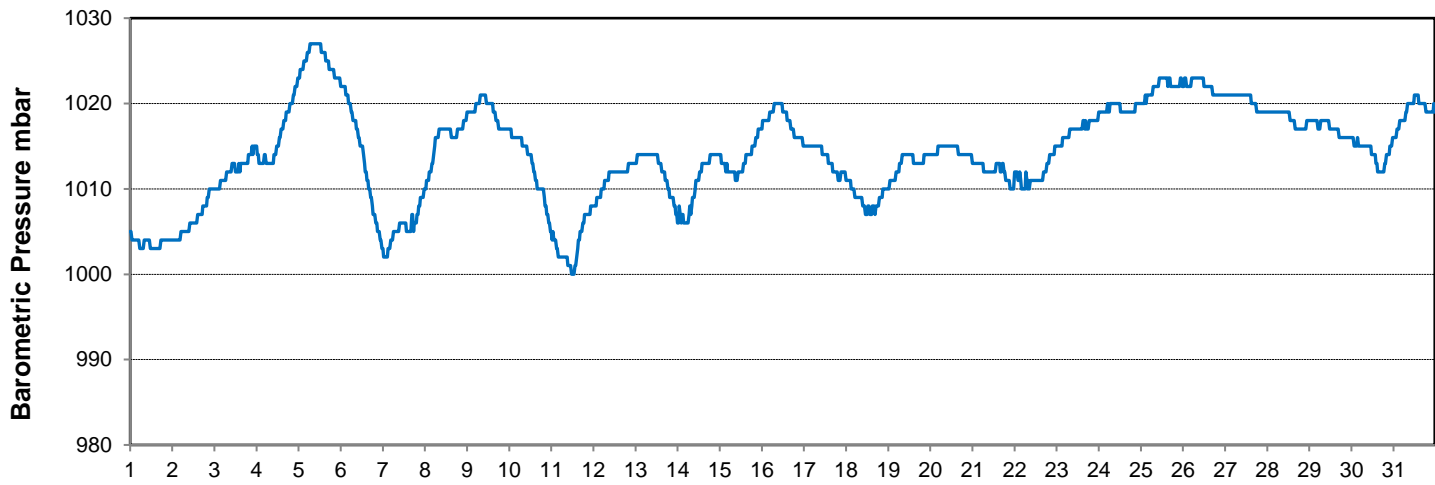
Temperature and Precipitation for July 2018



Relative Humidity for July 2018



Barometric Pressure Corrected to Sea Level for July 2018





SRC CLIMATE REFERENCE STATION DAILY DATA REPORT

CONSERVATION LEARNING CENTRE

Saskatchewan 53.03°N 105.77°W Estab. 2011

Preliminary

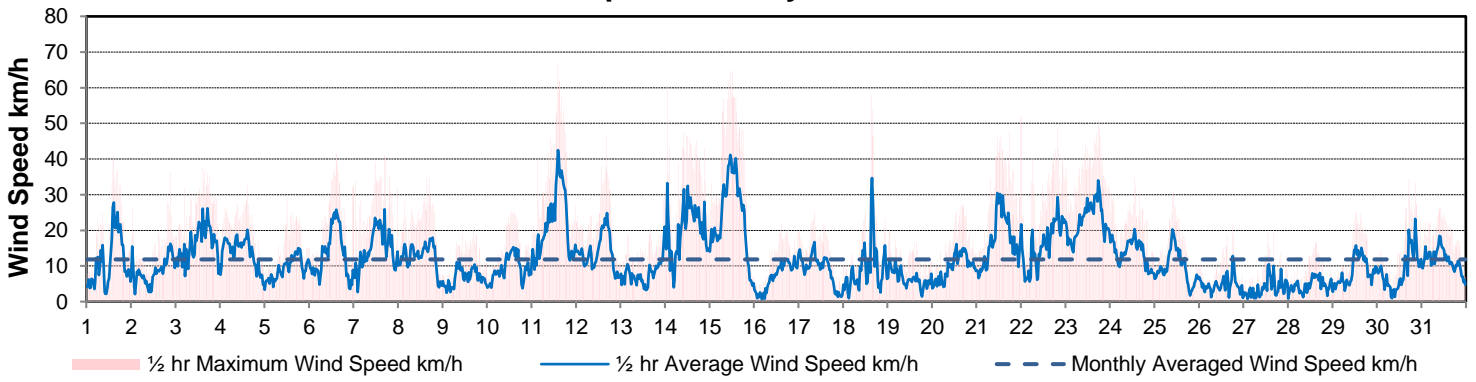
July 2018

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	41.0	WNW	14:45	13.0	14.5	14.5	14.5	13.0	9.5	7.0	3.5	35	1.8	11.3	8.7
2	36.2	WNW	21:15	16.0	14.5	14.5	14.0	12.5	10.0	7.0	4.0	34	6.4	14.7	8.5
3	37.6	ENE	14:36	13.5	14.0	14.0	13.5	12.0	9.5	7.0	3.0	39	2.7	10.7	7.5
4	32.6	NNW	14:44	11.5	13.0	13.0	13.0	10.5	8.5	6.0	2.0	39	5.2	9.8	6.4
5	29.1	WSW	12:09	17.5	13.0	13.0	13.5	12.5	10.0	7.5	4.0	37	15.8	29.0	5.2
6	41.4	SSE	14:54	21.0	15.5	15.5	14.5	12.5	10.0	7.5	4.0	37	14.5	27.2	5.7
7	41.2	WNW	16:47	22.0	17.5	17.5	16.0	13.0	10.0	7.5	4.0	36	13.7	24.6	5.0
8	35.0	NW	17:04	15.5	16.0	16.5	16.0	13.5	10.0	7.5	4.0	35	16.0	29.4	4.1
9	20.0	ESE	16:45	19.5	15.5	15.5	15.5	13.5	10.5	8.0	4.0	34	14.8	27.6	6.1
10	26.1	E	14:11	21.0	16.5	16.5	16.0	14.0	10.5	8.0	4.0	34	10.5	22.6	7.2
11	66.7	NW	14:02	18.5	18.0	17.5	16.5	13.5	10.5	8.0	4.0	37	5.1	13.3	9.6
12	46.2	W	16:31	20.0	17.0	17.0	16.5	14.0	11.0	8.0	4.5	37	13.2	26.8	5.2
13	30.6	ESE	23:32	21.5	17.5	17.5	17.0	14.5	11.0	8.5	4.5	36	14.7	28.0	3.5
14	60.6	WNW	1:17	16.0	18.0	18.0	17.5	14.5	11.0	8.0	4.0	40	3.8	14.4	7.9
15	64.9	NW	11:19	16.0	16.0	16.5	16.5	15.0	11.5	8.5	4.5	38	14.8	27.5	6.0
16	22.2	S	14:55	14.0	14.5	15.0	15.5	14.5	11.5	8.5	4.5	37	15.5	26.9	6.4
17	25.5	SSW	8:31	19.5	16.0	16.0	16.0	14.5	11.5	9.0	4.5	36	15.0	27.6	3.6
18	58.1	NW	15:15	23.5	18.0	18.0	17.0	14.5	11.5	9.0	4.5	35	11.9	20.4	9.4
19	19.8	N	1:16	19.5	17.5	17.5	17.0	15.0	11.5	9.0	4.5	34	14.5	26.6	4.9
20	27.2	SE	16:45	20.5	17.5	17.5	17.0	15.0	12.0	9.0	5.0	34	12.2	20.8	8.8
21	52.1	SW	23:59	21.0	17.5	17.5	17.0	15.0	12.0	9.5	5.0	33	8.9	20.7	10.1
22	51.5	W	0:05	15.0	17.0	17.0	16.5	15.0	12.0	9.5	5.0	37	8.9	19.9	5.7
23	50.4	NW	17:53	14.5	16.0	16.5	16.5	15.0	12.0	9.5	5.0	35	2.4	11.5	9.2
24	34.8	NW	13:06	14.5	15.5	15.5	15.5	15.0	12.0	9.5	5.0	35	6.6	17.0	10.7
25	31.0	N	10:02	15.0	15.5	16.0	16.0	14.5	12.0	9.5	5.0	34	8.1	16.8	10.2
26	21.7	WSW	18:23	17.5	15.0	15.0	15.5	14.5	12.0	10.0	5.0	34	13.4	22.9	11.1
27	19.7	SW	13:20	16.0	15.0	15.5	15.5	14.5	12.0	10.0	5.0	34	12.9	21.8	6.5
28	16.8	SW	14:39	16.5	15.0	15.5	15.5	14.5	12.0	10.0	5.5	33	14.6	25.7	5.3
29	25.2	W	12:19	18.5	16.0	16.0	16.0	14.5	12.0	10.0	5.5	33	13.9	25.4	5.1
30	34.3	N	17:07	21.0	17.0	17.0	16.5	14.5	12.0	10.0	5.5	33	8.8	20.3	7.2
31	26.5	NE	10:18	16.0	17.0	17.0	16.5	15.0	12.0	10.0	5.5	32	11.6	21.0	9.8
Total													332.2	662.2	220.6
Mean				17.6	16.0	16.1	15.8	14.0	11.1	8.6	4.5	35			
Extreme	66.7	NW	14:02												
Date	11														

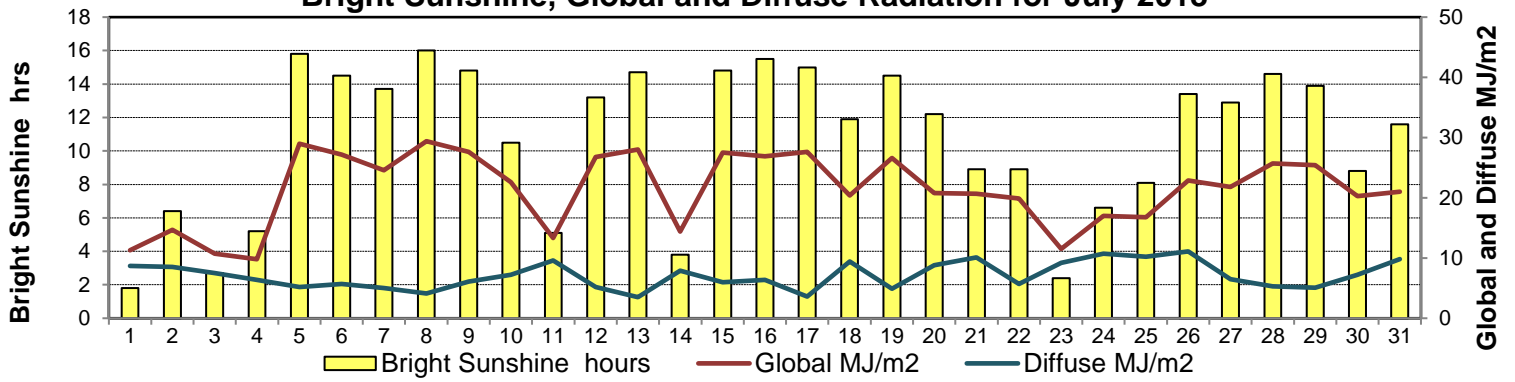
GLOSSARY OF TERMS

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	Diffuse is 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 is 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 July 2018

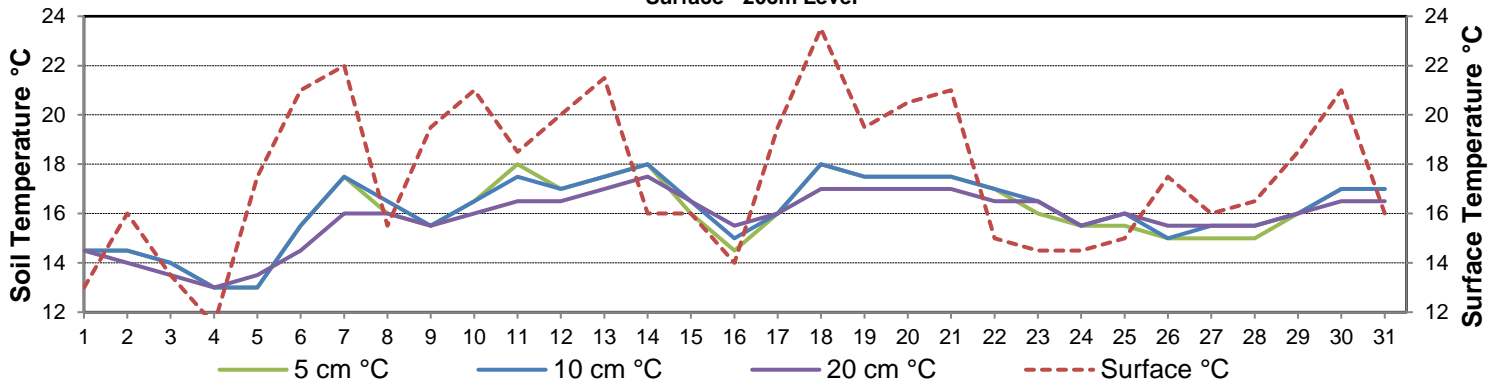


Bright Sunshine, Global and Diffuse Radiation for July 2018



Soil Temperatures for July 2018

Surface - 20cm Level



Soil Temperatures for July 2018

50 - 300cm Level

