



SRC CLIMATE REFERENCE STATION DAILY DATA REPORT

CONSERVATION LEARNING CENTRE

Saskatchewan 53.03°N 105.77°W Estab. 2011

Preliminary

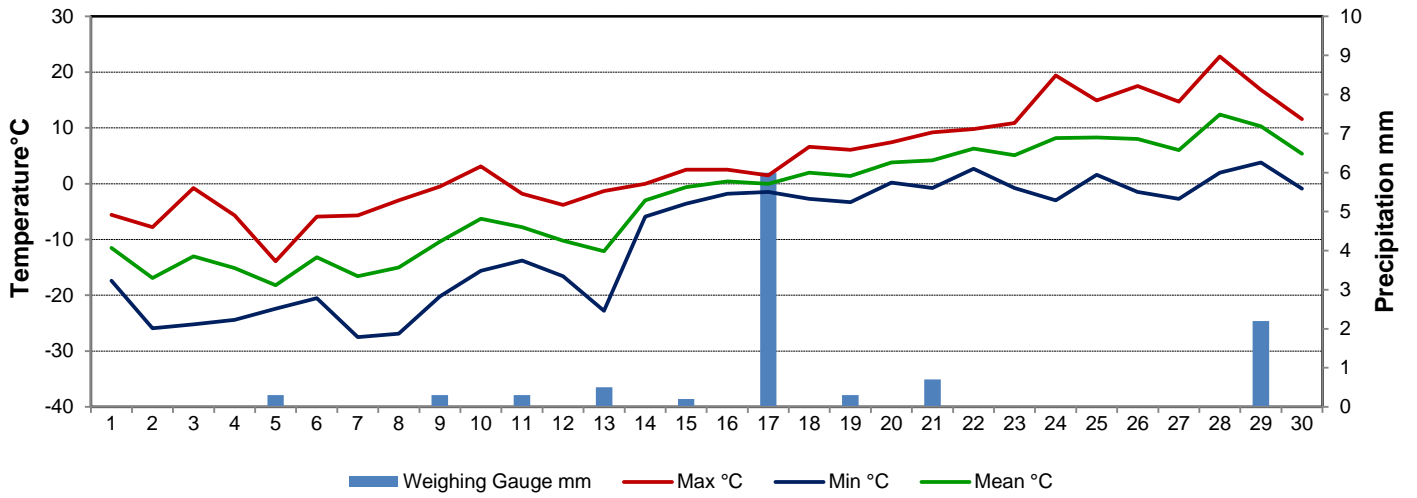
April 2018

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	-5.6	-17.4	-11.5	0.0	29.5	0.0	0.0		53	75	44	1016	1011
2	-7.8	-25.9	-16.9	0.0	34.9	0.0	0.0		52	82	49	1017	1013
3	-0.8	-25.2	-13.0	0.0	31.0	0.0	0.0		52	83	32	1019	1016
4	-5.7	-24.4	-15.1	0.0	33.1	0.0	0.0		51	83	40	1017	1015
5	-13.9	-22.4	-18.2	0.0	36.2	0.0	0.3		51	75	44	1028	1017
6	-5.9	-20.5	-13.2	0.0	31.2	0.0	0.0		51	75	45	1029	1023
7	-5.7	-27.5	-16.6	0.0	34.6	0.0	0.0		50	82	47	1023	1015
8	-3.0	-26.9	-15.0	0.0	33.0	0.0	0.0		50	83	44	1018	1014
9	-0.5	-20.2	-10.4	0.0	28.4	0.0	0.3		50	85	66	1018	1014
10	3.1	-15.6	-6.3	0.0	24.3	0.0	0.0		50	88	43	1014	1011
11	-1.8	-13.8	-7.8	0.0	25.8	0.0	0.3		50	86	51	1012	1008
12	-3.8	-16.6	-10.2	0.0	28.2	0.0	0.0		49	84	46	1017	1009
13	-1.3	-22.8	-12.1	0.0	30.1	0.0	0.5		49	84	39	1025	1017
14	0.0	-5.9	-3.0	0.0	21.0	0.0	0.0		49	75	62	1023	1016
15	2.5	-3.6	-0.6	0.0	18.6	0.0	0.2		49	81	63	1017	1015
16	2.5	-1.8	0.4	0.0	17.6	0.0	0.0		47	71	47	1015	1011
17	1.5	-1.5	0.0	0.0	18.0	0.0	6.0		45	94	61	1013	1007
18	6.6	-2.7	2.0	0.0	16.0	0.0	0.0		48	94	53	1023	1013
19	6.1	-3.3	1.4	0.0	16.6	0.0	0.3		41	90	48	1025	1021
20	7.4	0.2	3.8	0.0	14.2	0.0	0.0		36	84	65	1022	1015
21	9.2	-0.8	4.2	0.0	13.8	0.0	0.7		30	90	61	1015	1000
22	9.8	2.7	6.3	1.3	11.7	0.0	0.0		20	85	57	1017	1000
23	10.9	-0.8	5.1	0.1	12.9	0.0	0.0		7	84	29	1025	1018
24	19.4	-3.0	8.2	3.2	9.8	0.0	0.0		-	87	21	1026	1011
25	14.9	1.6	8.3	3.3	9.7	0.0	0.0		-	72	26	1016	1009
26	17.5	-1.5	8.0	3.0	10.0	0.0	0.0		-	85	17	1018	1011
27	14.7	-2.7	6.0	1.0	12.0	0.0	0.0		-	89	24	1021	1015
28	22.8	2.0	12.4	7.4	5.6	0.0	0.0		-	67	18	1015	998
29	16.8	3.8	10.3	5.3	7.7	0.0	2.2		-	78	37	1010	996
30	11.6	-0.9	5.4	0.4	12.6	0.0	0.0		-	81	21	1014	1010
Total				25.0	628.1	0.0	10.8						
Avg	4.1	-9.9	-2.9				61.3	Cumulative ppt					
Extreme	22.8	-27.5					6.0		53	94	17	1029	996
Date	28	7					17		1	17	26	6	29

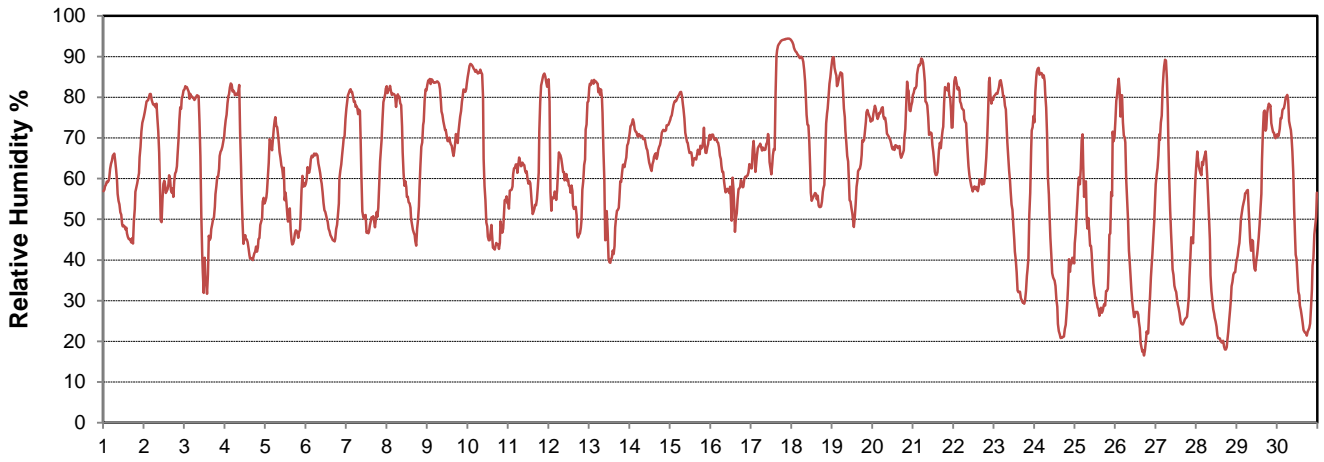
SRC proudly recognizes the following CRS supporters:



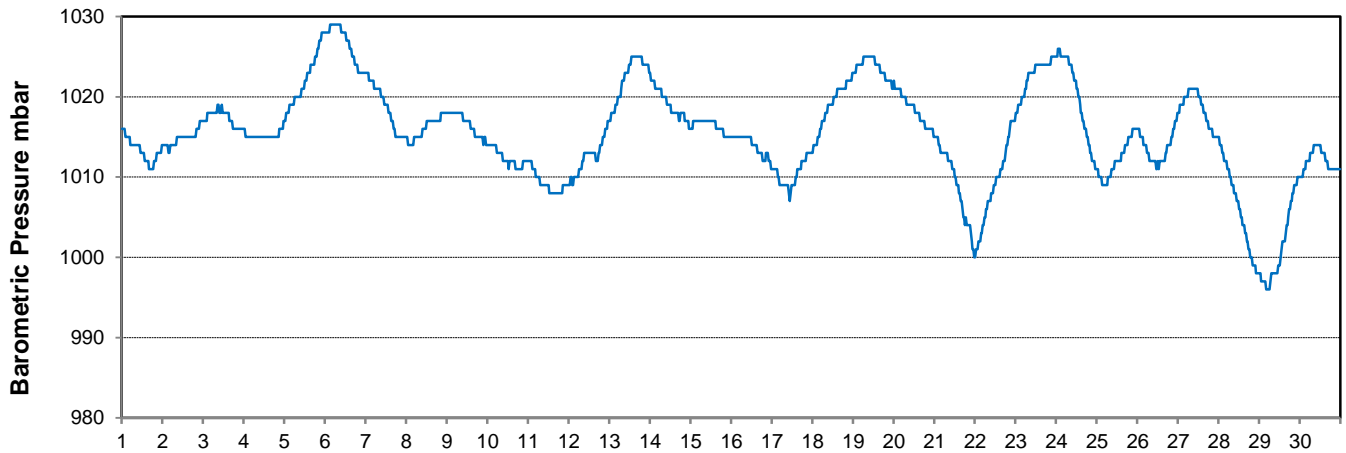
Temperature and Precipitation for April 2018



Relative Humidity for April 2018



Barometric Pressure Corrected to Sea Level for April 2018





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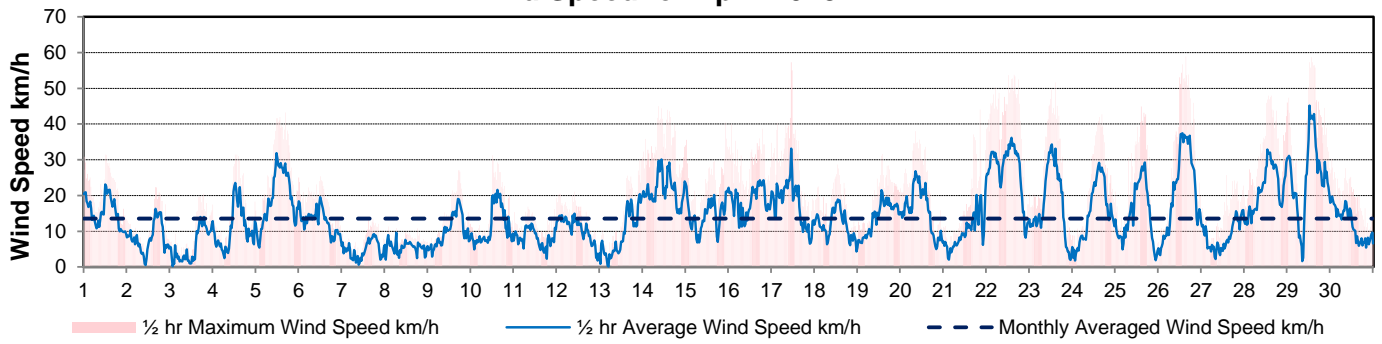
April 2018

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	31.5	NW	11:56	-7.5	-2.0	-2.0	-1.5	-0.5	0.0	1.0	3.5	13	11.9	21.2	15.0
2	22.4	SSW	15:51	-8.5	-2.0	-2.0	-1.5	-0.5	0.0	1.0	3.5	13	12.0	21.1	17.5
3	20.5	SSW	18:34	-9.0	-2.5	-2.0	-1.5	-0.5	0.0	1.0	3.5	13	10.3	20.7	5.7
4	31.5	NW	12:24	-8.5	-2.5	-2.5	-1.5	-0.5	0.0	1.0	3.5	13	11.7	22.0	3.7
5	43.2	N	16:03	-9.5	-2.5	-2.5	-1.5	-1.0	0.0	1.0	3.5	13	11.8	21.0	8.8
6	25.4	NW	11:51	-10.0	-2.5	-2.5	-2.0	-1.0	0.0	1.0	3.5	13	13.0	22.3	3.2
7	14.0	SE	14:55	-10.0	-2.5	-2.5	-2.0	-1.0	0.0	1.0	3.5	13	12.9	22.8	3.5
8	11.3	ENE	1:53	-9.5	-2.5	-2.5	-2.0	-1.0	0.0	1.0	3.5	13	13.0	23.6	4.4
9	27.1	SW	16:50	-8.0	-2.5	-2.5	-2.0	-1.0	0.0	1.0	3.5	13	2.8	15.9	13.5
10	31.2	NW	11:59	-7.0	-2.5	-2.5	-2.0	-1.0	0.0	1.0	3.5	13	12.1	22.9	5.5
11	19.3	NNW	23:36	-5.5	-2.5	-2.5	-2.0	-1.0	0.0	1.0	3.0	13	3.4	16.0	13.0
12	21.1	ENE	9:52	-7.5	-2.5	-2.0	-2.0	-1.0	0.0	1.0	3.0	13	13.2	23.6	4.1
13	30.7	SSE	23:39	-9.5	-2.0	-2.0	-1.5	-1.0	0.0	1.0	3.0	13	11.9	23.6	5.8
14	45.0	S	8:34	-5.0	-2.0	-2.0	-1.5	-1.0	0.0	1.0	3.0	13	7.3	18.8	11.0
15	40.4	SSE	22:23	-3.0	-2.0	-2.0	-1.5	-1.0	0.0	1.0	3.0	13	5.8	19.0	9.3
16	40.1	SSE	1:04	-1.5	-1.5	-1.5	-1.5	-1.0	0.0	1.0	3.0	13	9.6	21.0	9.3
17	57.3	ESE	10:57	-2.0	-1.5	-1.5	-1.5	-1.0	0.0	0.5	3.0	13	0.0	7.2	6.5
18	28.6	SW	12:45	0.0	-1.0	-1.5	-1.0	-1.0	0.0	1.0	3.0	13	13.5	24.7	3.9
19	31.6	SSW	13:50	-0.5	-1.0	-1.0	-1.0	-0.5	0.0	1.0	3.0	13	13.0	24.6	5.5
20	38.0	S	8:11	1.0	-1.0	-1.0	-1.0	-0.5	0.0	1.0	3.0	13	12.4	23.8	5.6
21	44.0	SW	20:22	2.5	-0.5	-0.5	-0.5	-0.5	0.0	1.0	3.0	16	2.2	12.4	10.3
22	53.8	W	15:17	5.0	0.0	0.0	0.0	-0.5	0.0	0.5	3.0	17	7.6	18.3	7.3
23	51.7	WNW	14:00	5.0	0.0	0.0	0.0	-0.5	0.0	1.0	3.0	24	13.8	24.9	3.3
24	42.7	WSW	16:01	7.0	0.0	0.0	0.0	0.0	0.0	1.0	3.0	29	13.1	23.5	5.2
25	45.0	NW	14:12	8.5	0.5	0.0	0.0	0.0	0.0	1.0	3.0	32	8.8	18.5	5.4
26	58.9	NW	15:21	11.0	0.5	0.5	0.5	0.0	0.0	1.0	3.0	34	13.9	24.6	3.4
27	25.7	SSW	13:59	8.0	1.0	1.0	1.0	0.0	0.0	1.0	3.0	33	14.1	25.3	3.5
28	48.0	SSW	13:29	12.0	2.0	2.0	1.5	0.0	0.0	1.0	3.0	34	14.2	25.1	3.7
29	58.7	N	13:14	15.0	4.5	3.5	2.5	0.0	0.0	1.0	3.0	36	5.3	11.6	7.3
30	30.3	NE	0:51	3.5	2.5	2.5	2.0	0.0	0.0	1.0	3.0	38	14.6	26.1	3.7
Total													309.2	626.1	207.9
Mean				-1.5	-1.0	-1.1	-0.8	-0.6	0.0	1.0	3.2	18.4			
Extreme	58.9	NW	15:21												
Date	26														

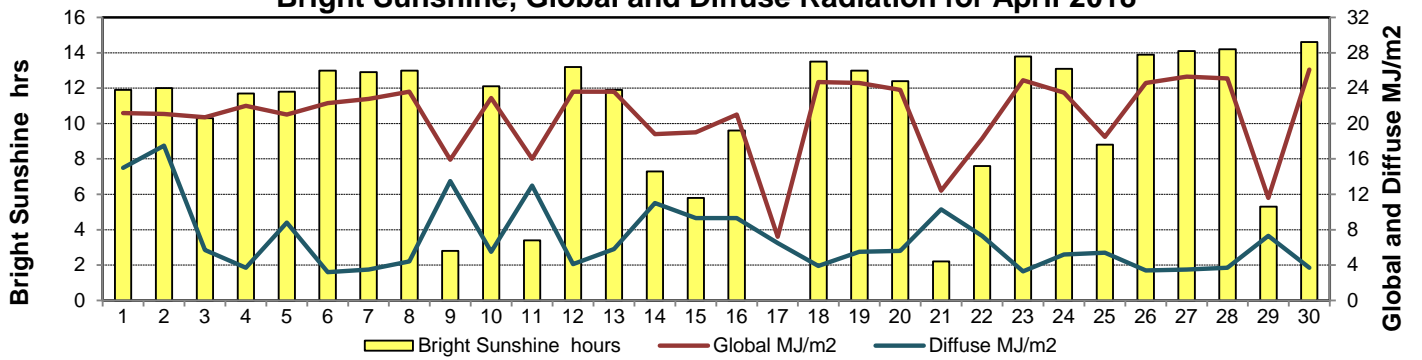
GLOSSARY OF TERMS

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 April 2018

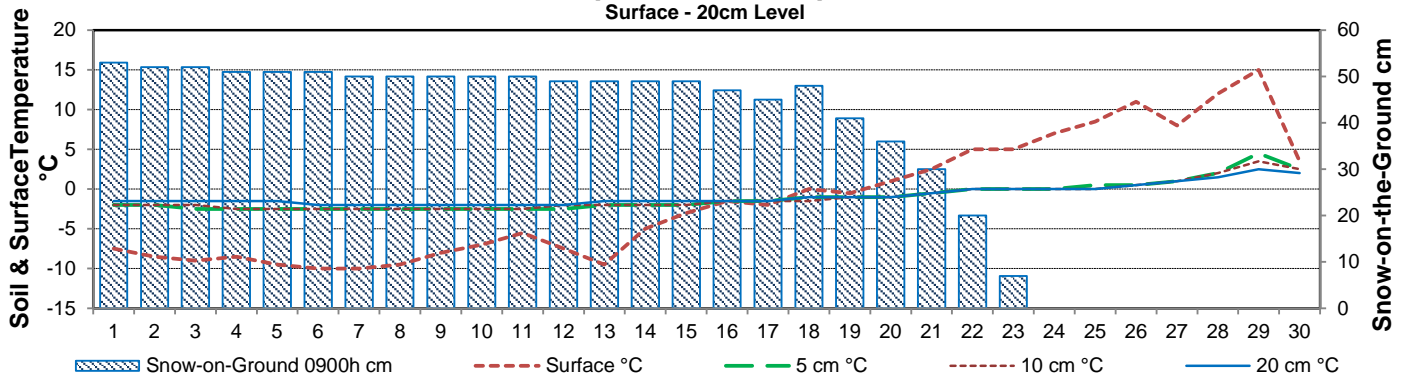


Bright Sunshine, Global and Diffuse Radiation for April 2018



Soil Temperatures for April 2018

Surface - 20cm Level



Soil Temperatures for April 2018

50 - 300cm Level

