



SRC CLIMATE REFERENCE STATION DAILY DATA REPORT

CONSERVATION LEARNING CENTRE

Saskatchewan 53.03°N 105.77°W Estab. 2011

Preliminary

April 2020

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	-12.1	-22.6	-17.4	0.0	35.4	0.0	1.4		36	90	68	1021	1018
2	-13.1	-25.8	-19.5	0.0	37.5	0.0	0.0		37	89	49	1025	1020
3	-9.9	-31.3	-20.6	0.0	38.6	0.0	0.0		38	86	41	1026	1019
4	-5.8	-29.1	-17.5	0.0	35.5	0.0	0.5		37	94	48	1019	1014
5	-5.3	-15.3	-10.3	0.0	28.3	0.0	0.3		38	95	63	1016	1012
6	-2.0	-9.7	-5.9	0.0	23.9	0.0	9.9		38	95	72	1012	1000
7	2.9	-18.4	-7.8	0.0	25.8	0.0	0.2		50	95	63	1007	1000
8	-1.7	-12.3	-7.0	0.0	25.0	0.0	0.5		46	93	59	1020	1008
9	-0.4	-19.9	-10.2	0.0	28.2	0.0	0.0		45	92	59	1022	1009
10	2.4	-10.1	-3.9	0.0	21.9	0.0	0.0		44	95	53	1014	1007
11	-5.0	-14.6	-9.8	0.0	27.8	0.0	0.0		41	80	57	1019	1014
12	-6.8	-15.9	-11.4	0.0	29.4	0.0	0.0		41	83	56	1021	1019
13	-6.0	-18.5	-12.3	0.0	30.3	0.0	0.0		40	84	46	1022	1018
14	-1.5	-23.8	-12.7	0.0	30.7	0.0	0.0		39	91	39	1018	1014
15	0.0	-22.1	-11.1	0.0	29.1	0.0	0.0		40	90	32	1023	1016
16	1.5	-7.8	-3.2	0.0	21.2	0.0	0.0		40	89	53	1023	1010
17	8.4	-6.5	1.0	0.0	17.0	0.0	0.0		38	87	48	1009	997
18	2.3	-3.5	-0.6	0.0	18.6	0.0	0.2		33	84	52	1011	1002
19	7.7	-5.1	1.3	0.0	16.7	0.0	0.0		30	87	49	1009	1000
20	3.6	-2.4	0.6	0.0	17.4	0.0	0.4		24	97	33	1011	1004
21	7.9	-4.2	1.9	0.0	16.1	0.0	0.0		21	93	58	1008	1001
22	12.5	-4.1	4.2	0.0	13.8	0.0	0.0		16	96	49	1005	1003
23	16.1	-3.8	6.2	1.2	11.8	0.0	0.0		9	98	39	1010	1003
24	11.7	-2.1	4.8	0.0	13.2	0.0	0.0		-	100	62	1015	1010
25	16.2	-4.3	6.0	1.0	12.0	0.0	0.0		-	100	32	1017	1005
26	11.9	2.1	7.0	2.0	11.0	0.0	1.5		-	93	54	1008	995
27	11.6	-3.5	4.1	0.0	13.9	0.0	0.0		-	97	49	1009	1006
28	17.3	-2.2	7.6	2.6	10.4	0.0	0.0		-	90	27	1016	1006
29	21.3	-0.9	10.2	5.2	7.8	0.0	0.0		-	86	21	1016	1008
30	21.8	2.3	12.1	7.1	5.9	0.0	0.0		-	98	28	1008	997
Total				19.1	654.2	0.0	14.9						
Avg	3.6	-11.2	-3.8				59.2	Cumulative ppt					
Extreme	21.8	-31.3					9.9		50	100	21	1026	995
Date	30	3					6		7	24	29	3	26

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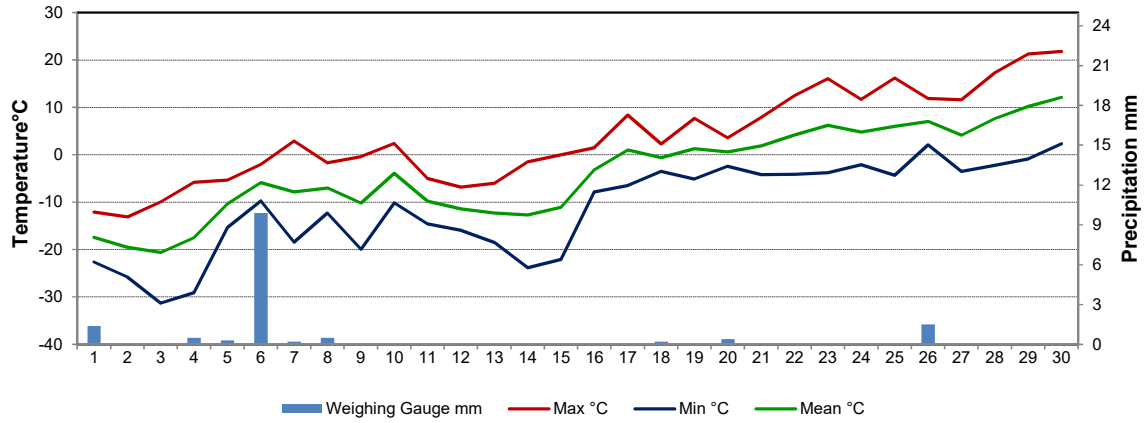


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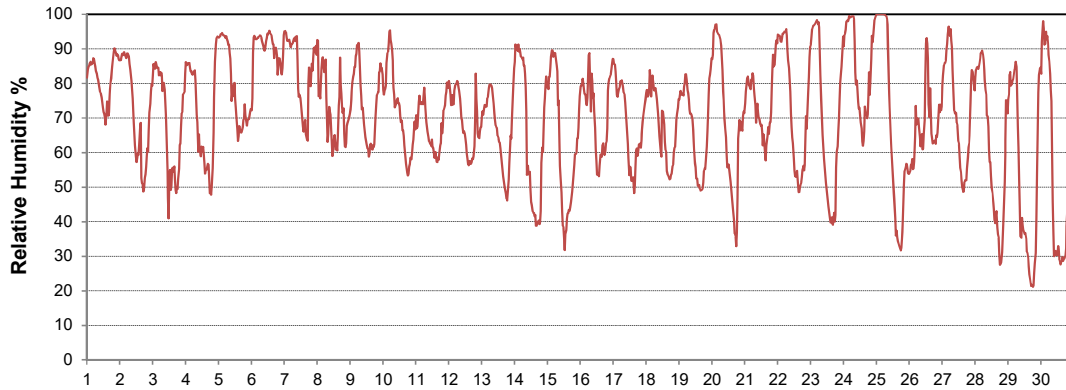
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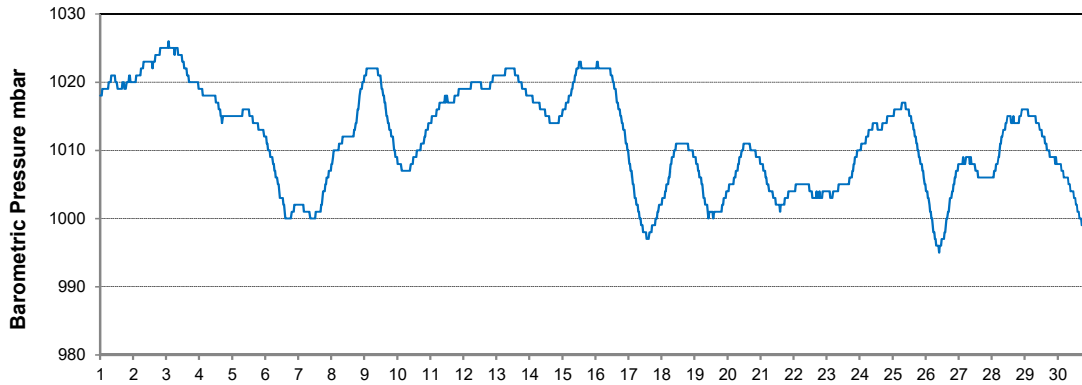
Temperature and Precipitation for April 2020



Relative Humidity for April 2020



Barometric Pressure Corrected to Sea Level for April 2020





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CONSERVATION LEARNING CENTRE

Saskatchewan 53.03°N 105.77°W Estab. 2011

Preliminary

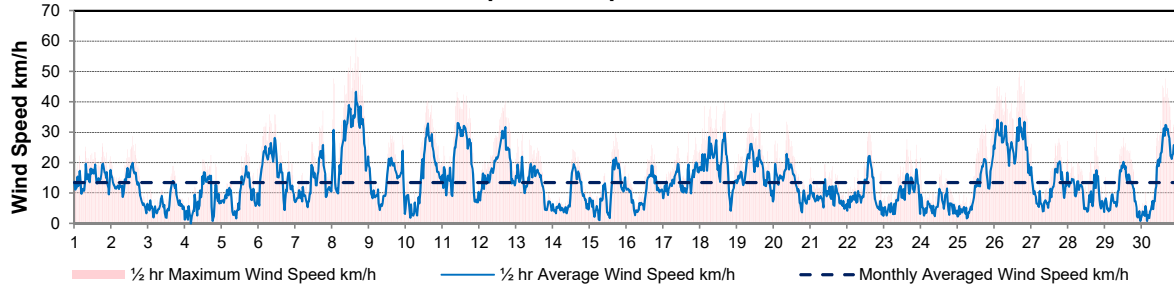
April 2020

Day	Wind Gust			Soil Temperatures at 0900hrs									Radiation				
	Max	Direction	Time	Surface	5 cm	10 cm	20 cm	50 cm	100 cm	150 cm	300 cm		Bright Sunshine	Possible	% Possible	Global	Diffuse
	km/h			°C	°C	°C	°C	°C	°C	°C	°C		hours	hours		MJ/m ²	MJ/m ²
1	26.4	NW	18:09	-11.5	-1.5	-1.5	-1.5	-1.0	0.0	1.0	3.0		0.4	13.1	3.1	9.6	8.2
2	28.7	WSW	13:46	-12.5	-2.0	-1.5	-1.5	-1.0	0.0	1.0	3.0		12.3	13.1	93.6	14.1	4.1
3	18.9	S	15:47	-13.5	-2.0	-2.0	-1.5	-1.0	0.0	1.0	3.0		12.7	13.2	96.1	14.6	2.4
4	22.5	NNE	16:49	-12.0	-2.0	-2.0	-1.5	-1.0	0.0	1.0	3.0		7.5	13.3	56.5	12.3	7.6
5	26.1	ESE	15:37	-6.5	-2.0	-2.0	-1.5	-1.0	0.0	1.0	3.0		10.0	13.3	75.0	13.7	6.1
6	35.9	E	6:55	-4.0	-2.0	-2.0	-1.5	-1.0	0.0	1.0	3.0		0.7	13.4	5.2	6.5	5.8
7	37.1	NW	17:45	-6.5	-2.0	-2.0	-1.5	-1.0	0.0	1.0	3.0		8.9	13.5	66.0	13.0	4.3
8	61.1	NW	15:28	-4.0	-1.5	-1.5	-1.5	-1.0	-0.5	0.5	3.0		7.0	13.6	51.7	12.5	7.5
9	29.2	SW	13:59	-9.0	-1.5	-1.5	-1.5	-1.0	0.0	1.0	3.0		9.5	13.6	69.8	14.0	5.7
10	40.4	NW	14:05	-4.5	-1.5	-1.5	-1.5	-1.0	0.0	1.0	3.0		9.5	13.7	69.4	13.4	4.5
11	43.2	NW	9:03	-7.0	-1.5	-1.5	-1.0	-1.0	0.0	1.0	3.0		9.9	13.8	71.9	14.3	7.4
12	40.3	NW	16:36	-11.5	-1.5	-1.5	-1.0	-1.0	0.0	1.0	3.0		12.4	13.8	89.7	15.2	6.4
13	29.3	N	3:35	-13.0	-1.5	-1.5	-1.0	-1.0	0.0	1.0	3.0		13.3	13.9	95.8	16.0	2.9
14	24.4	SSW	12:53	-11.5	-1.5	-1.5	-1.0	-1.0	0.0	1.0	3.0		13.0	14.0	93.1	16.3	3.0
15	29.6	NW	16:51	-11.0	-1.5	-1.5	-1.5	-1.0	0.0	1.0	3.0		13.5	14.0	96.2	15.6	5.2
16	25.8	SSW	16:05	-3.5	-1.5	-1.5	-1.5	-1.0	0.0	1.0	3.0		11.2	14.1	79.5	15.2	4.6
17	30.2	NW	16:22	-1.5	-1.5	-1.5	-1.5	-1.0	0.0	0.5	3.0		7.1	14.2	50.1	13.0	7.5
18	39.9	NW	15:44	-1.0	-0.5	-1.0	-1.0	-0.5	0.0	1.0	3.0		10.3	14.2	72.4	15.8	6.6
19	36.4	NW	14:07	0.0	-0.5	-0.5	-0.5	-0.5	0.0	0.5	3.0		9.8	14.3	68.6	14.9	5.0
20	33.4	NNW	8:23	0.5	-0.5	-0.5	0.0	-0.5	0.0	0.5	3.0		10.9	14.4	75.9	16.0	3.6
21	19.5	SSE	9:06	0.5	0.0	-0.5	0.0	-0.5	0.0	0.5	3.0		13.7	14.4	94.9	16.1	2.4
22	30.3	W	14:29	2.0	0.0	-0.5	0.0	-0.5	0.0	0.5	3.0		11.0	14.5	75.9	13.7	6.0
23	27.6	NW	14:54	6.5	0.0	-0.5	0.0	-0.5	0.0	0.5	3.0		12.4	14.6	85.2	15.3	2.7
24	17.5	E	13:09	4.5	0.0	0.0	0.0	-0.5	0.0	0.5	3.0		8.3	14.6	56.8	11.8	3.6
25	37.5	S	23:58	5.5	0.0	0.0	-0.5	-0.5	0.0	0.5	2.5		13.5	14.7	91.9	16.2	2.6
26	50.0	WNW	16:05	9.5	1.0	0.5	0.0	0.0	0.0	1.0	3.0		4.3	14.8	29.2	6.8	4.6
27	27.9	ENE	17:50	4.5	0.0	0.0	0.0	-0.5	0.0	0.5	3.0		11.1	14.8	74.9	12.4	6.9
28	30.6	W	18:00	4.5	0.5	0.5	0.0	-0.5	0.0	0.5	3.0		10.8	14.9	72.6	14.0	4.3
29	28.3	SSW	11:46	13.5	0.5	0.5	0.0	0.0	0.0	1.0	3.0		13.4	14.9	89.7	14.8	5.2
30	47.6	E	15:10	14.0	2.0	1.5	0.5	0.0	0.0	1.0	3.0		8.5	15.0	56.7	13.0	4.3
Total													296.9	421.6	70.4	410.1	151.0
Mean				-2.6	-0.9	-1.0	-0.8	-0.7	0.0	0.8	3.0						
Extreme	61.1	NW	15:28														
Date	8																

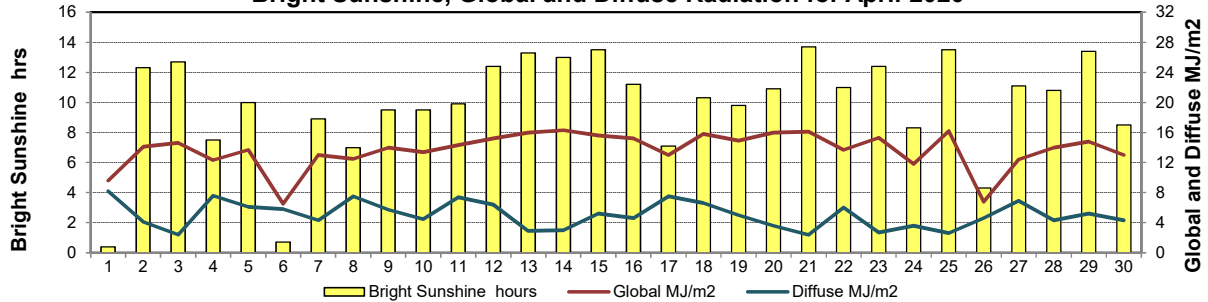
GLOSSARY OF TERMS

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	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

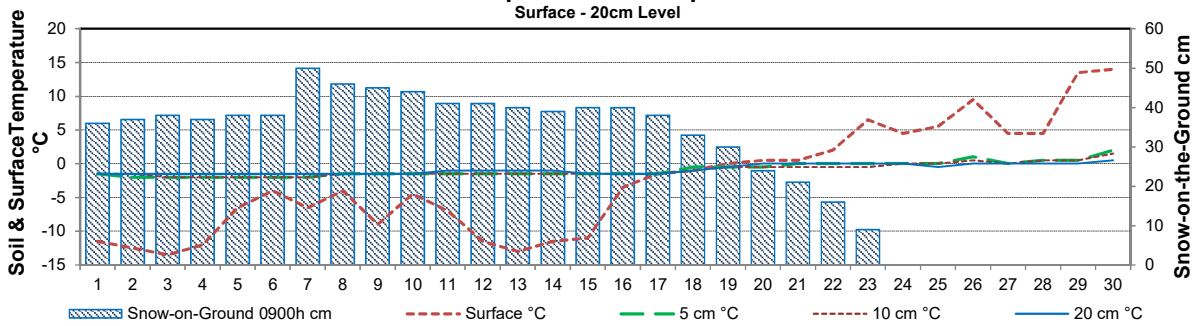
Wind Speed for April 2020



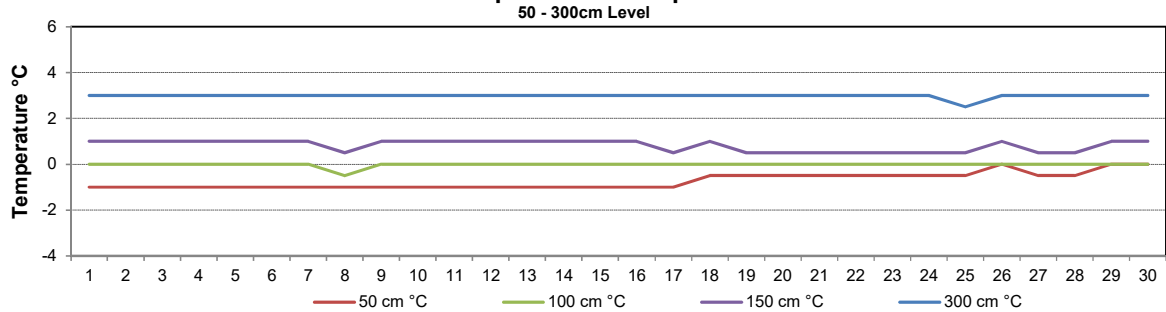
Bright Sunshine, Global and Diffuse Radiation for April 2020



Soil Temperatures for April 2020



Soil Temperatures for April 2020





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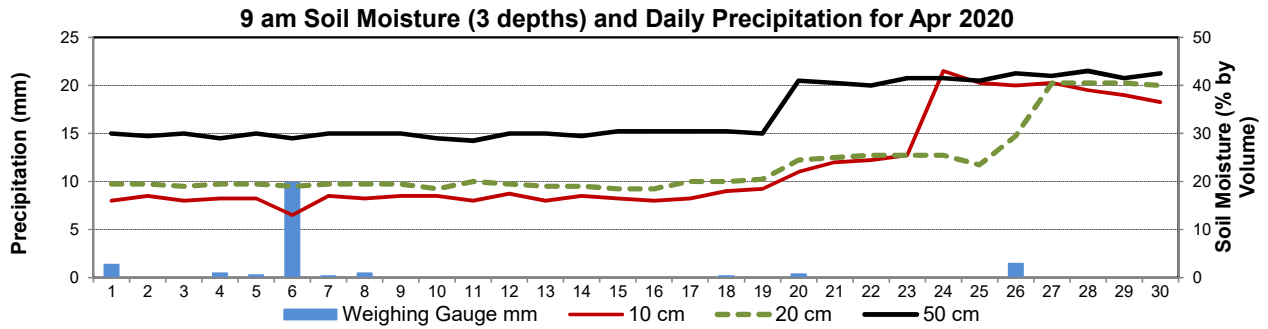
Saskatchewan 53.03°N 105.77°W Estab. 2011

April 2020

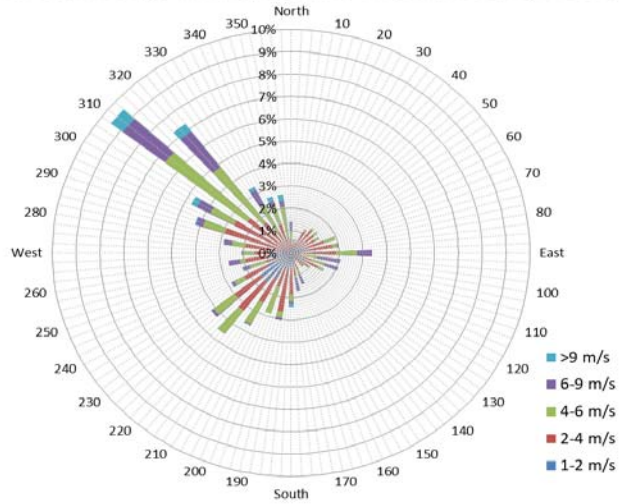
Day	2 meter Wind Speed			Soil Moisture at 0900 hrs (rounded to the 0.5%)										
	Daily Average	Max ½ hr Avg	½ hr Extreme Max	10 cm	20 cm	50 cm								
	km/h	km/h	km/h	% by volume (soil type is Clay Loam)										
1	12.0	16.1	21.8	16.0	19.5	30.0								
2	10.0	16.7	23.3	17.0	19.5	29.5								
3	6.0	12.9	16.8	16.0	19.0	30.0								
4	7.0	15.1	18.9	16.5	19.5	29.0								
5	8.0	14.2	20.2	16.5	19.5	30.0								
6	14.0	23.6	30.6	13.0	19.0	29.0								
7	10.0	20.2	27.2	17.0	19.5	30.0								
8	22.0	34.1	47.9	16.5	19.5	30.0								
9	11.0	19.5	27.0	17.0	19.5	30.0								
10	12.0	25.6	32.1	17.0	18.5	29.0								
11	15.0	25.3	35.0	16.0	20.0	28.5								
12	15.0	25.0	32.3	17.5	19.5	30.0								
13	11.0	17.2	23.3	16.0	19.0	30.0								
14	8.0	17.4	22.4	17.0	19.0	29.5								
15	8.0	17.6	23.3	16.5	18.5	30.5								
16	8.0	17.0	23.5	16.0	18.5	30.5								
17	12.0	17.3	22.0	16.5	20.0	30.5								
18	15.0	23.0	32.9	18.0	20.0	30.5								
19	14.0	20.5	28.7	18.5	20.5	30.0								
20	11.0	17.8	25.0	22.0	24.5	41.0								
21	6.0	10.9	16.6	24.0	25.0	40.5								
22	8.0	16.6	24.1	24.5	25.5	40.0								
23	7.0	13.1	21.6	25.5	25.5	41.5								
24	5.0	10.6	15.6	43.0	25.5	41.5								
25	8.0	17.0	28.9	40.5	23.5	41.0								
26	20.0	26.5	37.1	40.0	29.5	42.5								
27	9.0	16.2	24.1	40.5	40.5	42.0								
28	8.0	13.5	23.3	39.0	40.5	43.0								
29	8.0	16.4	22.7	38.0	40.5	41.5								
30	12.0	23.1	36.6	36.5	40.0	42.5								
Total														
Mean				23	24	34.1								
Extreme	22.0	34.1	47.9	43	40.5	43								
Date	0	0	0	0	0	0								

SRC proudly recognizes the following CRS supporters:

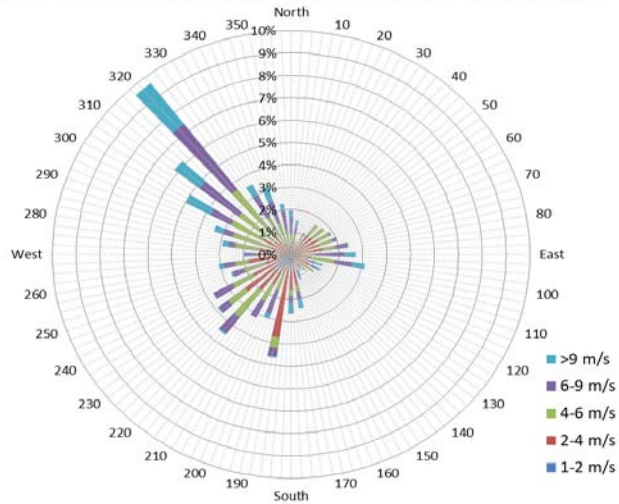




10 minute Average Wind Speed and Direction CLC April 2020

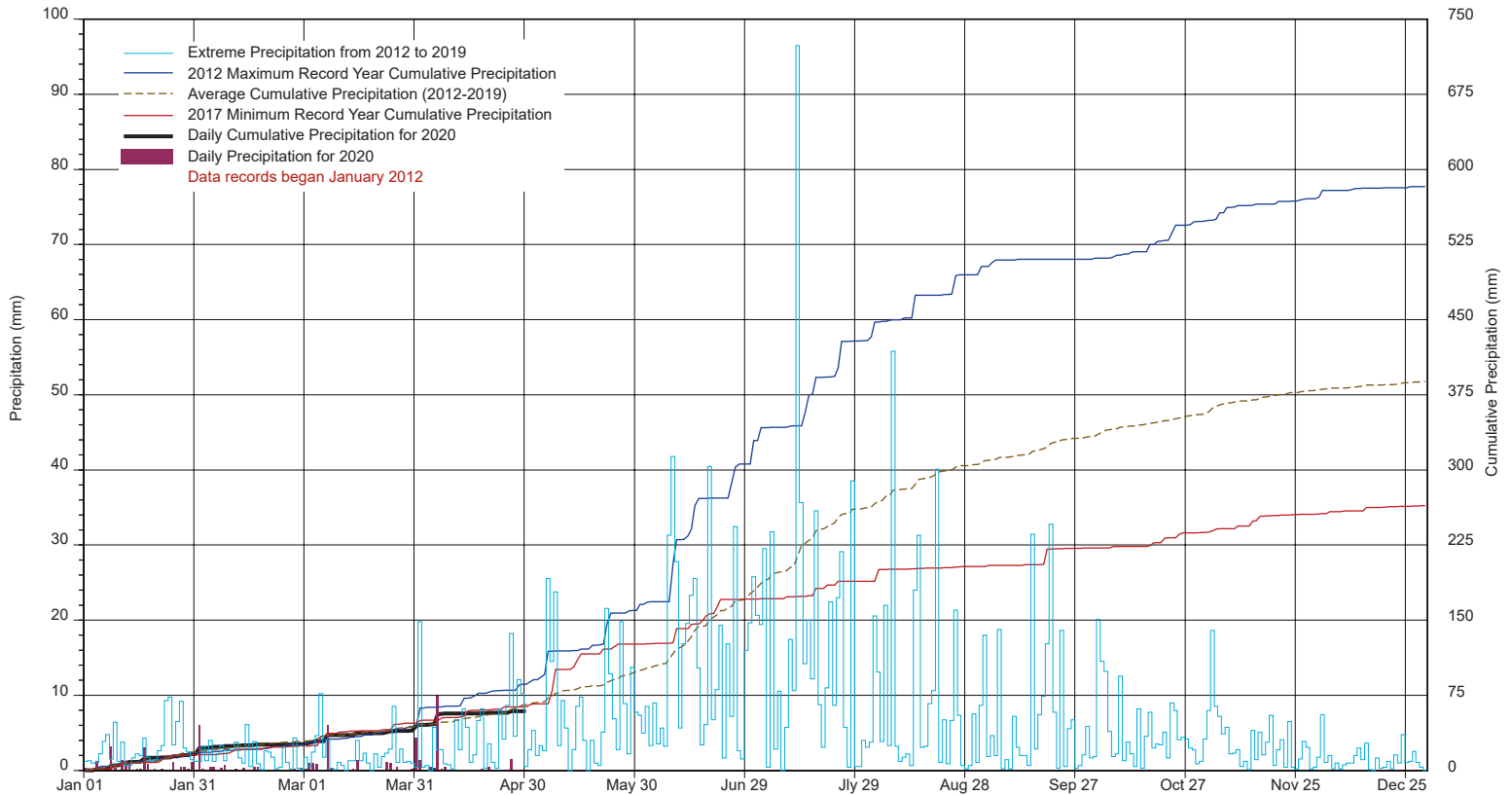


1/2 hr Maximum Wind Speed and Direction CLC Apr 2020

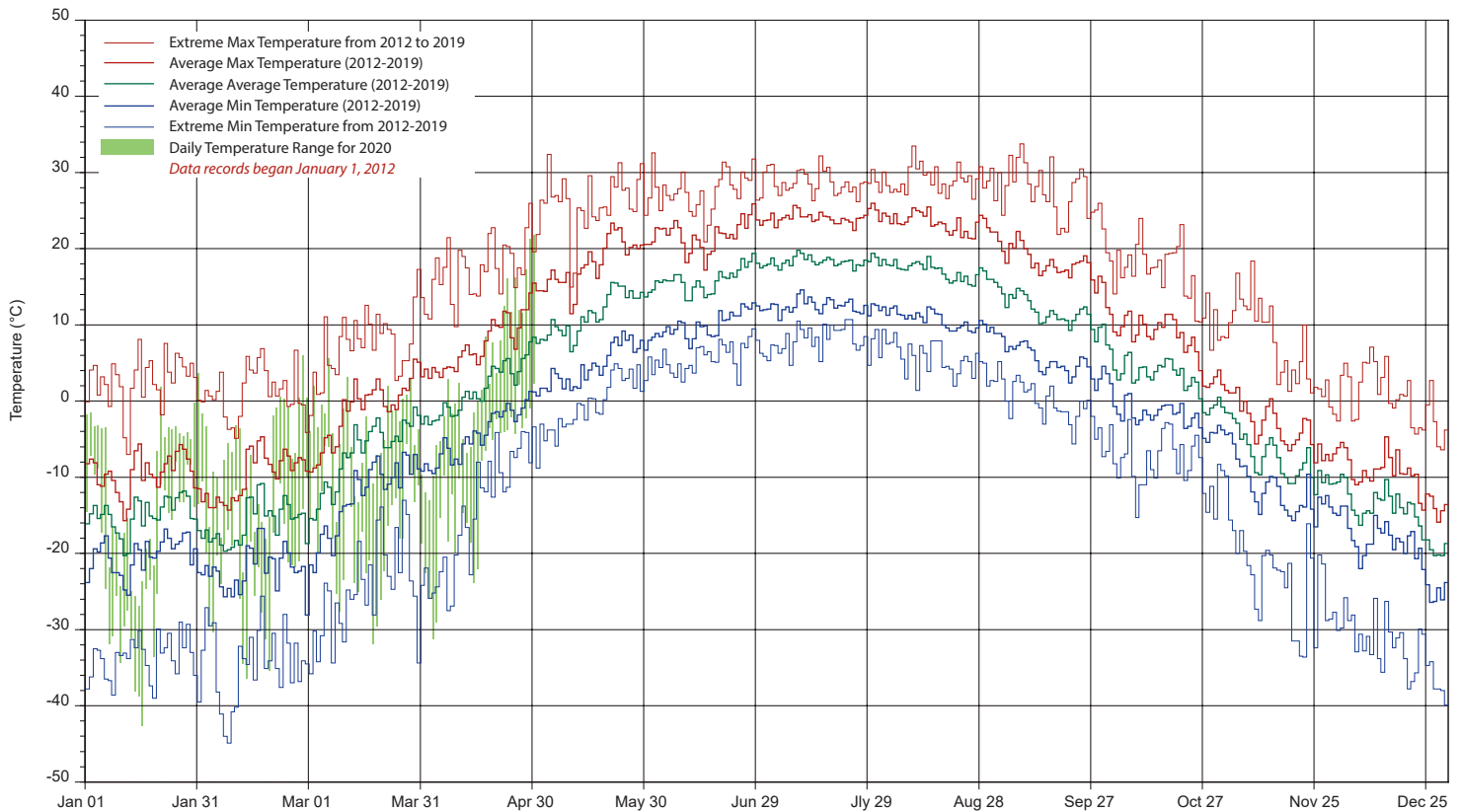


SRC's CLIMATE REFERENCE STATION at the Conservation Learning Centre

2020 PRECIPITATION AND AVERAGE



2020 TEMPERATURES AND AVERAGES



SRC proudly recongnizes the following CRS supporters:



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