



# SRC CLIMATE REFERENCE STATION DAILY DATA REPORT

## CONSERVATION LEARNING CENTRE

Saskatchewan 53.03°N 105.77°W 451m asl Estab. 2011

Preliminary

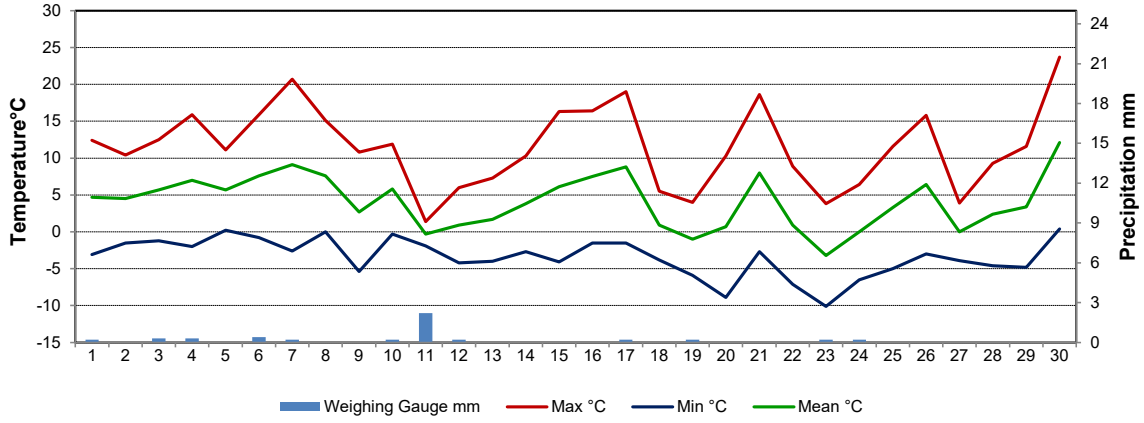
**April 2021**

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	12.4	-3.1	4.7	0.0	13.3	0.0	0.2		6	92	53	1013	996
2	10.4	-1.5	4.5	0.0	13.5	0.0	0.0		-	89	25	1014	996
3	12.5	-1.2	5.7	0.7	12.3	0.0	0.3		-	85	32	1017	1014
4	15.9	-2.0	7.0	2.0	11.0	0.0	0.3		-	93	36	1016	1003
5	11.1	0.2	5.7	0.7	12.3	0.0	0.0		-	83	32	1009	1005
6	15.9	-0.8	7.6	2.6	10.4	0.0	0.4		-	88	28	1011	1008
7	20.7	-2.6	9.1	4.1	8.9	0.0	0.2		-	98	18	1011	999
8	15.1	0.0	7.6	2.6	10.4	0.0	0.0		-	95	37	1011	998
9	10.8	-5.4	2.7	0.0	15.3	0.0	0.0		-	93	31	1014	1004
10	11.9	-0.3	5.8	0.8	12.2	0.0	0.2		-	86	33	1008	999
11	1.4	-1.9	-0.3	0.0	18.3	0.0	2.2		-	97	83	1023	1008
12	6.0	-4.2	0.9	0.0	17.1	0.0	0.2		-	83	33	1031	1023
13	7.3	-4.0	1.7	0.0	16.3	0.0	0.0		-	67	32	1032	1031
14	10.3	-2.7	3.8	0.0	14.2	0.0	0.0		-	70	20	1032	1026
15	16.3	-4.1	6.1	1.1	11.9	0.0	0.0		-	90	22	1026	1021
16	16.4	-1.5	7.5	2.5	10.5	0.0	0.0		-	93	23	1025	1020
17	19.0	-1.5	8.8	3.8	9.2	0.0	0.2		-	91	24	1020	1015
18	5.5	-3.8	0.9	0.0	17.1	0.0	0.0		-	76	30	1026	1021
19	4.0	-5.9	-1.0	0.0	19.0	0.0	0.2		-	87	48	1025	1022
20	10.3	-8.9	0.7	0.0	17.3	0.0	0.0		-	91	25	1026	1018
21	18.6	-2.7	8.0	3.0	10.0	0.0	0.0		-	64	14	1017	1000
22	8.9	-7.1	0.9	0.0	17.1	0.0	0.0		-	74	31	1017	998
23	3.8	-10.1	-3.2	0.0	21.2	0.0	0.2		-	89	34	1017	1014
24	6.4	-6.5	0.0	0.0	18.0	0.0	0.2		-	97	28	1015	1009
25	11.6	-5.0	3.3	0.0	14.7	0.0	0.0		-	78	25	1009	1002
26	15.8	-3.0	6.4	1.4	11.6	0.0	0.0		-	80	23	1005	998
27	3.9	-3.9	0.0	0.0	18.0	0.0	0.0		-	72	40	1017	1005
28	9.3	-4.6	2.4	0.0	15.6	0.0	0.0		-	81	38	1019	1013
29	11.6	-4.8	3.4	0.0	14.6	0.0	0.0		-	97	20	1020	1017
30	23.7	0.4	12.1	7.1	5.9	0.0	0.0		-	80	27	1017	1000
Total				32.4	417.2	0.0	4.8						
Avg	<b>11.6</b>	<b>-3.4</b>	<b>4.1</b>				<b>40.2</b>	Cumulative ppt					
Extreme	23.7	-10.1					2.2		6	98	14	1032	996
Date	30	23					11		1	7	21	13	1

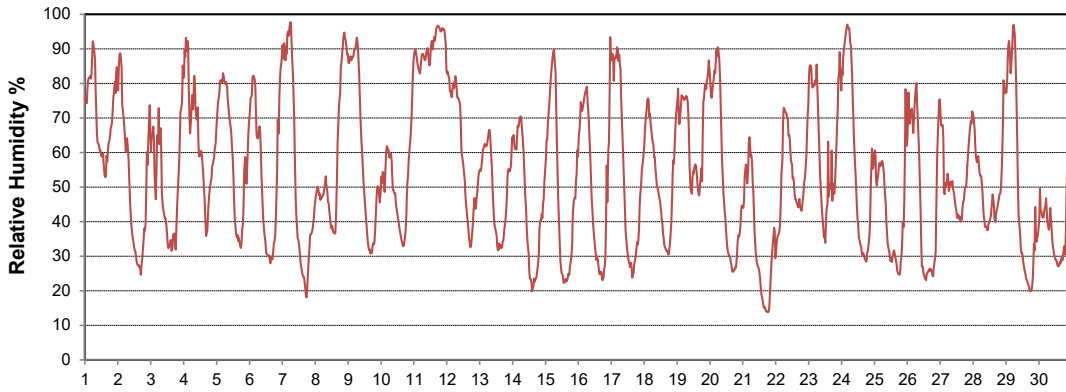
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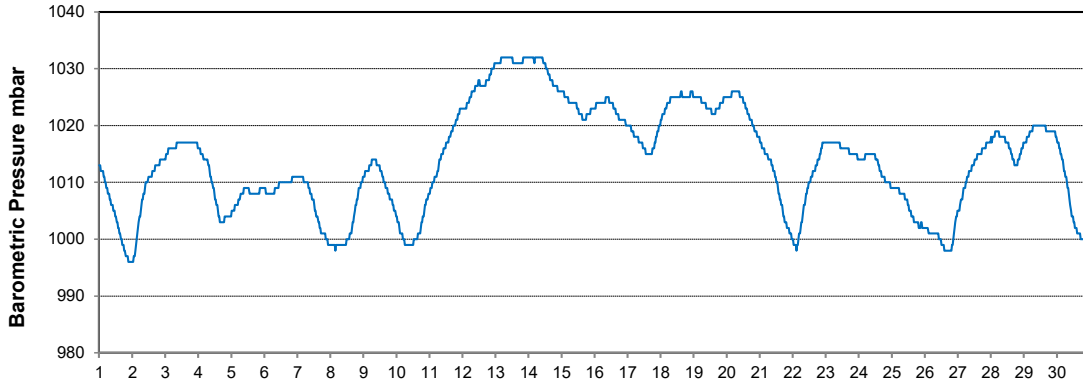
Temperature and Precipitation for April 2021



Relative Humidity for April 2021



Barometric Pressure Corrected to Sea Level for April 2021





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Saskatchewan 53.03°N 105.77°W 451m asl Estab. 2011

Preliminary

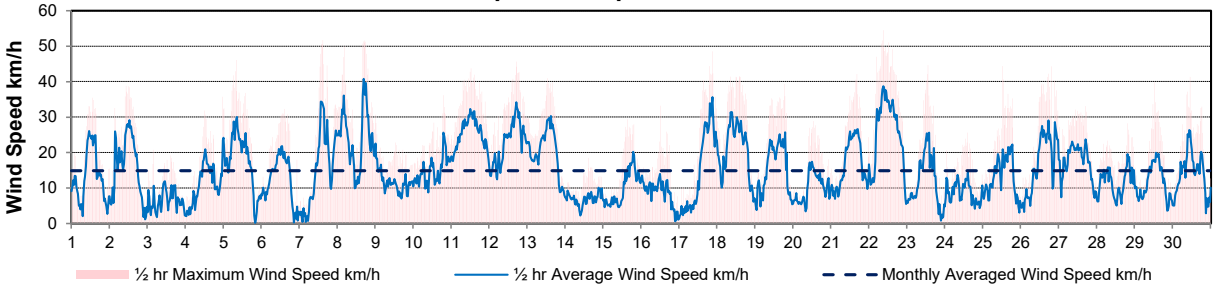
April 2021

Day	Wind Gust			Wind Speed (10 meters)	Soil Temperatures at 0900hrs								Radiation				
	Max	Direction	Time		Daily Average	Surface	5 cm	10 cm	20 cm	50 cm	100 cm	150 cm	300 cm	Bright Sunshine	Possible	% Possible	Global
	km/h			km/h		°C	°C	°C	°C	°C	°C	°C	°C	hours	hours		MJ/m <sup>2</sup>
1	35.5	SSW	12:33	13.0	2.5	0.0	0.0	0.0	0.0	0.5	1.0	3.0	10.7	13.1	82.0	17.7	5.4
2	38.7	NW	10:21	16.1	4.5	0.0	0.0	0.0	0.0	0.5	1.0	3.0	10.9	13.1	83.1	18.7	3.4
3	20.7	SE	3:37	6.5	5.0	0.0	0.0	0.0	0.0	0.5	1.0	3.0	11.4	13.2	86.4	19.1	3.2
4	35.7	NW	23:26	11.6	3.0	0.0	0.0	0.0	0.0	0.5	1.0	3.0	2.2	13.3	16.6	10.1	8.1
5	46.0	NW	8:22	17.4	3.5	0.0	0.0	0.0	0.0	0.5	1.0	3.0	10.4	13.3	78.0	18.4	3.5
6	32.3	NW	14:02	12.3	5.5	0.0	0.0	0.0	0.0	0.5	1.0	3.0	10.5	13.4	78.4	18.3	4.1
7	51.7	SSW	14:47	15.4	5.0	0.0	0.0	0.0	0.0	0.5	1.0	3.0	11.9	13.5	88.3	19.4	4.2
8	51.6	NNW	17:15	24.0	8.0	1.5	1.5	0.5	0.0	0.5	1.0	3.0	8.4	13.5	62.1	16.6	5.5
9	28.3	NNW	0:09	11.6	-0.5	1.0	1.0	0.5	0.0	0.5	1.0	3.0	12.4	13.6	91.2	21.4	2.7
10	36.2	NNE	18:47	15.3	4.5	1.0	1.0	0.5	0.0	0.5	1.0	3.0	11.3	13.7	82.7	20.1	3.6
11	43.7	NNE	12:10	25.1	0.0	1.0	1.0	1.0	0.0	0.5	1.0	3.0	0.0	13.7	0.0	5.6	5.0
12	45.7	NNE	16:46	22.9	-3.0	0.5	0.5	0.5	0.0	0.5	1.0	3.0	9.2	13.8	66.6	19.2	8.6
13	40.9	ENE	12:42	20.0	-1.0	0.0	0.0	0.5	0.0	0.5	1.0	3.0	9.8	13.9	70.6	18.5	7.8
14	18.4	E	14:03	6.8	1.0	0.5	0.5	0.5	0.0	0.5	1.0	3.0	10.3	13.9	73.9	20.2	4.2
15	29.3	NNE	15:09	9.7	5.0	1.0	1.0	1.0	0.0	0.5	1.0	3.0	12.6	14.0	89.9	22.1	2.9
16	33.2	NNE	11:43	8.7	6.0	1.0	1.5	1.5	0.0	0.5	1.0	3.0	13.3	14.1	94.5	21.2	3.8
17	48.5	NNE	20:41	15.1	7.0	1.5	1.5	1.5	0.0	0.5	1.0	3.0	8.2	14.1	58.0	18.8	6.3
18	41.5	NNE	13:46	20.3	0.5	2.5	2.5	2.5	0.5	0.5	1.0	3.0	12.1	14.2	85.2	23.2	3.3
19	39.3	NNE	18:28	15.6	0.5	1.0	1.0	1.5	1.0	0.5	1.0	3.0	5.5	14.3	38.5	14.0	9.6
20	28.8	NW	12:40	10.3	0.5	0.5	0.5	1.0	1.0	1.0	1.0	3.0	13.6	14.3	94.8	23.0	5.1
21	42.1	SSW	16:03	16.9	8.5	0.5	1.0	1.5	1.0	1.0	1.5	3.0	13.8	14.4	95.8	23.8	3.5
22	54.5	N	9:23	25.6	0.5	2.5	2.5	2.0	1.0	1.0	1.5	3.0	8.7	14.5	60.1	17.7	8.1
23	44.6	NNW	13:07	12.1	0.0	0.5	1.0	1.5	1.5	1.0	1.5	3.0	10.1	14.5	69.5	17.5	6.4
24	25.6	NNW	14:10	9.0	-1.0	0.5	0.5	1.0	1.0	1.0	1.5	3.0	10.8	14.6	73.9	22.7	7.0
25	44.4	W	12:19	13.3	4.0	0.5	1.0	1.5	1.0	1.0	1.5	3.0	10.2	14.7	69.5	18.3	9.3
26	44.3	W	19:17	17.1	6.5	1.0	1.0	1.5	1.5	1.5	1.5	3.0	9.6	14.7	65.1	19.8	6.9
27	33.1	NNE	16:36	17.5	-1.0	2.0	2.0	2.5	1.5	1.5	1.5	3.0	13.2	14.8	89.2	22.6	7.0
28	28.2	NE	19:26	11.7	0.0	1.5	2.0	2.5	2.0	1.5	1.5	3.0	6.0	14.9	40.4	15.0	9.7
29	39.7	NW	12:10	11.5	4.5	1.5	2.0	2.5	2.0	1.5	1.5	3.0	14.3	14.9	95.8	26.2	3.5
30	41.3	S	10:49	14.1	9.0	3.0	3.0	3.0	2.0	1.5	1.5	3.0	9.3	15.0	62.0	20.3	5.4
Total													300.7	421.1	71.4	569.5	167.1
Mean					3.0	0.9	1.0	1.1	0.6	0.8	1.2	3.0					
Extreme	54.5	N	9:23														
Date	22																

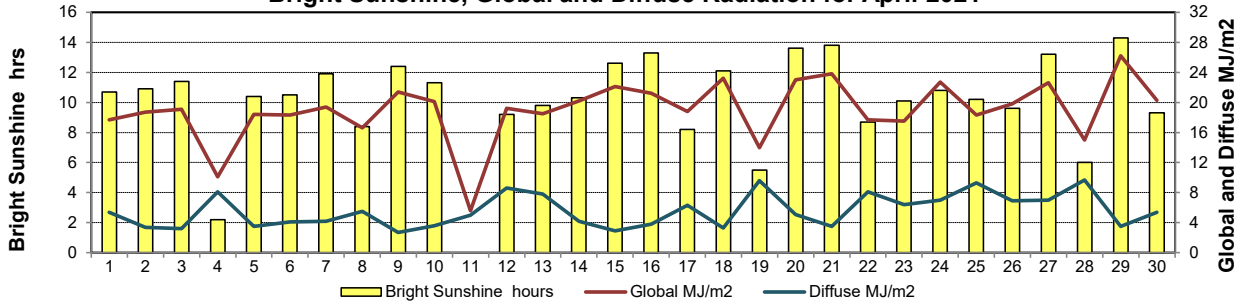
### GLOSSARY OF TERMS

Degree-days	Radiation
T <sub>m</sub> 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 (T <sub>m</sub> -5°C); if T <sub>m</sub> ≤ 5°C then GDD = 0	
Heating (18°C-T <sub>m</sub> ); if T <sub>m</sub> ≥ 18°C then HDD = 0	
Cooling (T <sub>m</sub> -18°C); if T <sub>m</sub> ≤ 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 April 2021**

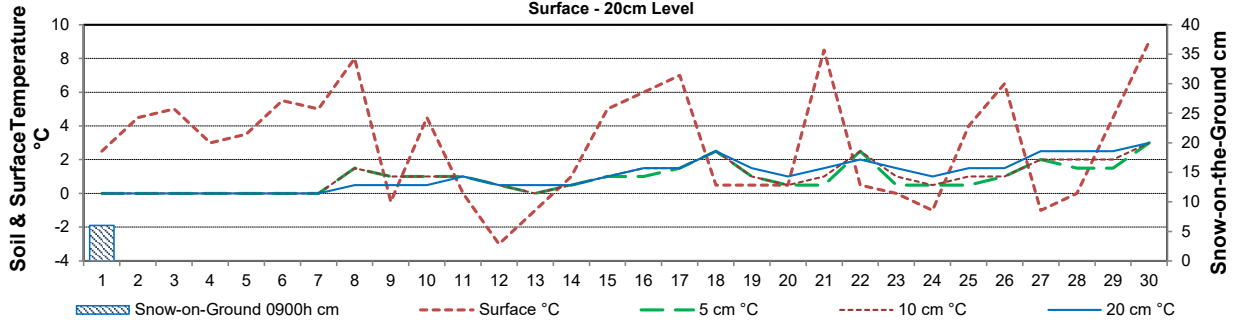


**Bright Sunshine, Global and Diffuse Radiation for April 2021**



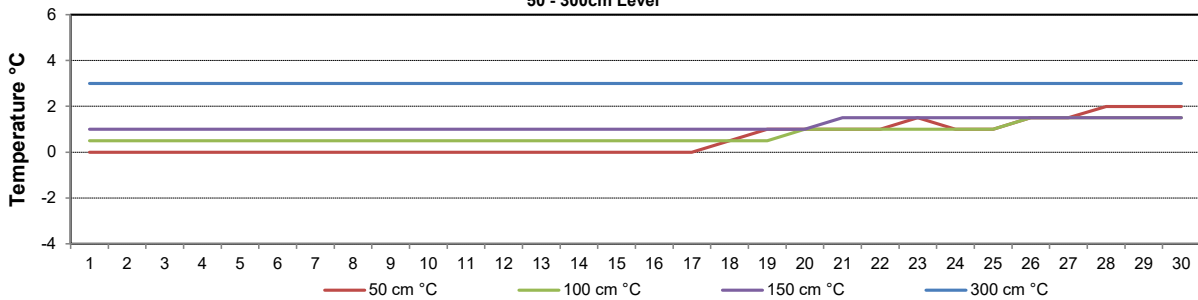
**Soil Temperatures for April 2021**

Surface - 20cm Level



**Soil Temperatures for April 2021**

50 - 300cm Level





**SRC CLIMATE REFERENCE STATION DAILY DATA REPORT**  
**CONSERVATION LEARNING CENTRE**

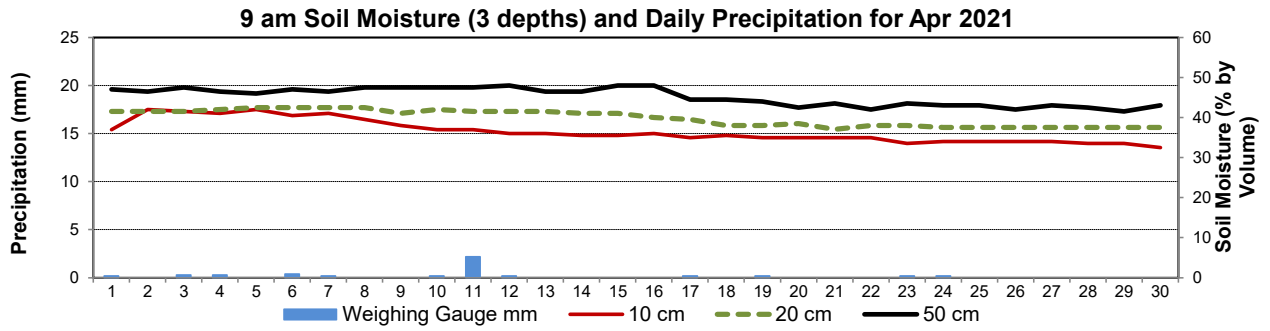
Saskatchewan 53.03°N 105.77°W 451m asl Estab. 2011

April 2021

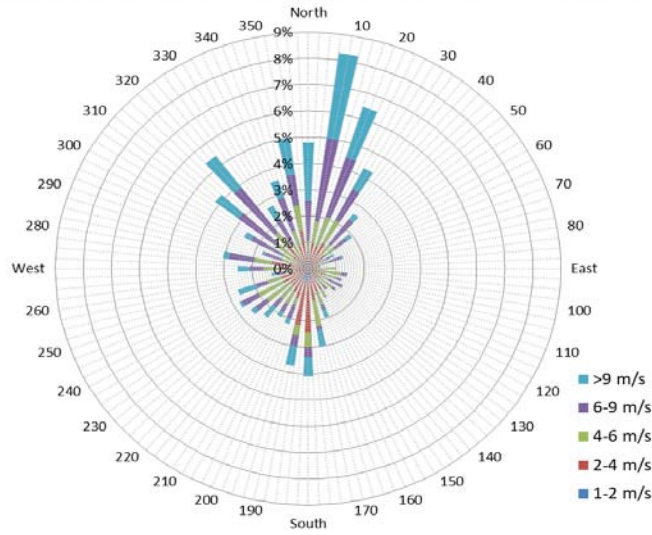
Day	2 meter Wind Speed			Soil Moisture at 0900 hrs (rounded to the 0.5%)														
	Daily Average	Max ½ hr Avg	½ hr Extreme Max	10 cm	20 cm	50 cm												
	km/h	km/h	km/h	% by volume (soil type is Clay Loam)														
1	9.0	20.7	28.5	37.0	41.5	47.0												
2	12.0	21.7	29.5	42.0	41.5	46.5												
3	5.0	10.2	17.2	41.5	41.5	47.5												
4	8.0	17.5	27.0	41.0	42.0	46.5												
5	13.0	22.0	31.0	42.0	42.5	46.0												
6	9.0	16.8	26.0	40.5	42.5	47.0												
7	10.0	25.9	39.4	41.0	42.5	46.5												
8	18.0	30.1	40.2	39.5	42.5	47.5												
9	9.0	14.1	20.4	38.0	41.0	47.5												
10	12.0	18.4	27.7	37.0	42.0	47.5												
11	19.0	24.1	32.9	37.0	41.5	47.5												
12	17.0	25.4	32.9	36.0	41.5	48.0												
13	15.0	22.5	33.3	36.0	41.5	46.5												
14	6.0	7.7	15.2	35.5	41.0	46.5												
15	7.0	14.0	23.9	35.5	41.0	48.0												
16	6.0	11.6	23.5	36.0	40.0	48.0												
17	11.0	26.2	36.2	35.0	39.5	44.5												
18	15.0	24.1	34.4	35.5	38.0	44.5												
19	12.0	19.5	32.0	35.0	38.0	44.0												
20	8.0	14.2	23.5	35.0	38.5	42.5												
21	13.0	21.6	32.5	35.0	37.0	43.5												
22	20.0	29.4	43.9	35.0	38.0	42.0												
23	9.0	19.8	37.3	33.5	38.0	43.5												
24	7.0	12.4	22.2	34.0	37.5	43.0												
25	10.0	16.7	34.3	34.0	37.5	43.0												
26	13.0	22.9	34.4	34.0	37.5	42.0												
27	13.0	18.5	28.7	34.0	37.5	43.0												
28	10.0	14.0	19.7	33.5	37.5	42.5												
29	9.0	16.2	27.9	33.5	37.5	41.5												
30	10.0	20.7	32.1	32.5	37.5	43.0												
Total																		
Mean				37	40	45.2												
Extreme	20.0	30.1	43.9	42	42.5	48												
Date	0	0	0	0	0	0												

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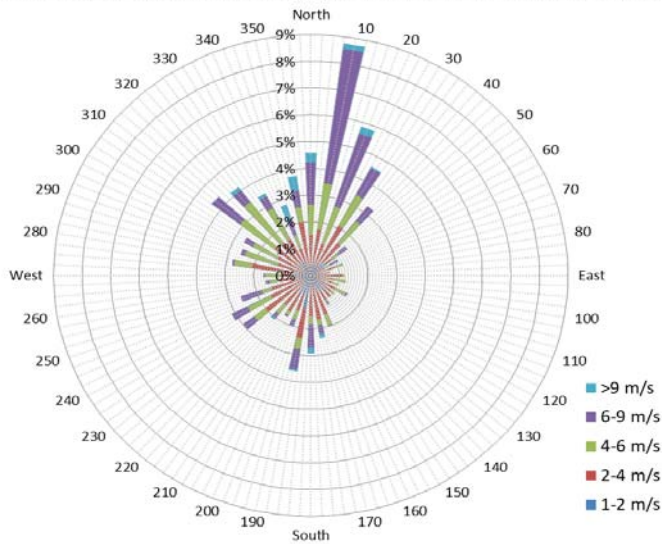




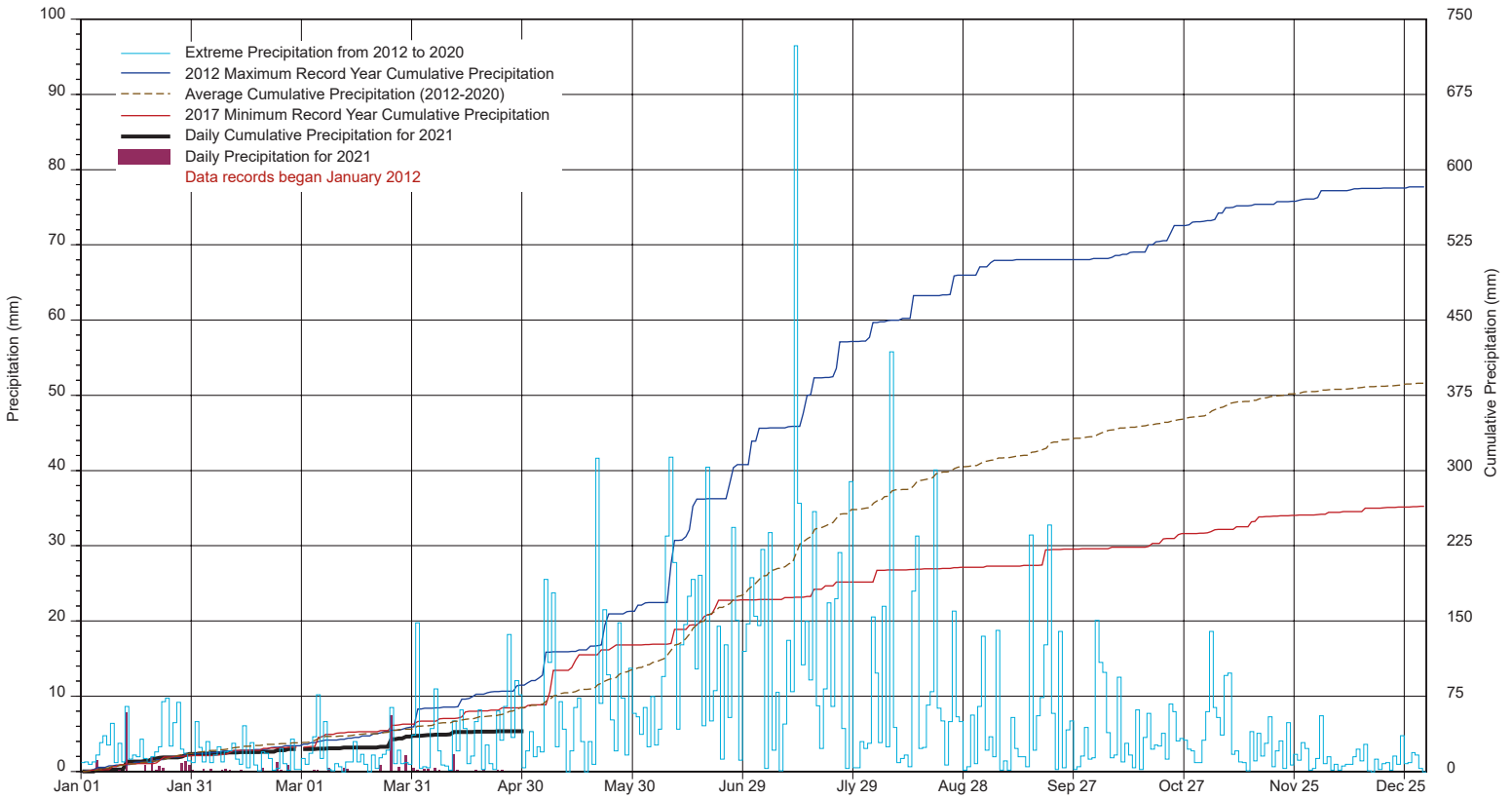
### 1/2 hr Maximum Wind Speed and Direction CLC April 2021



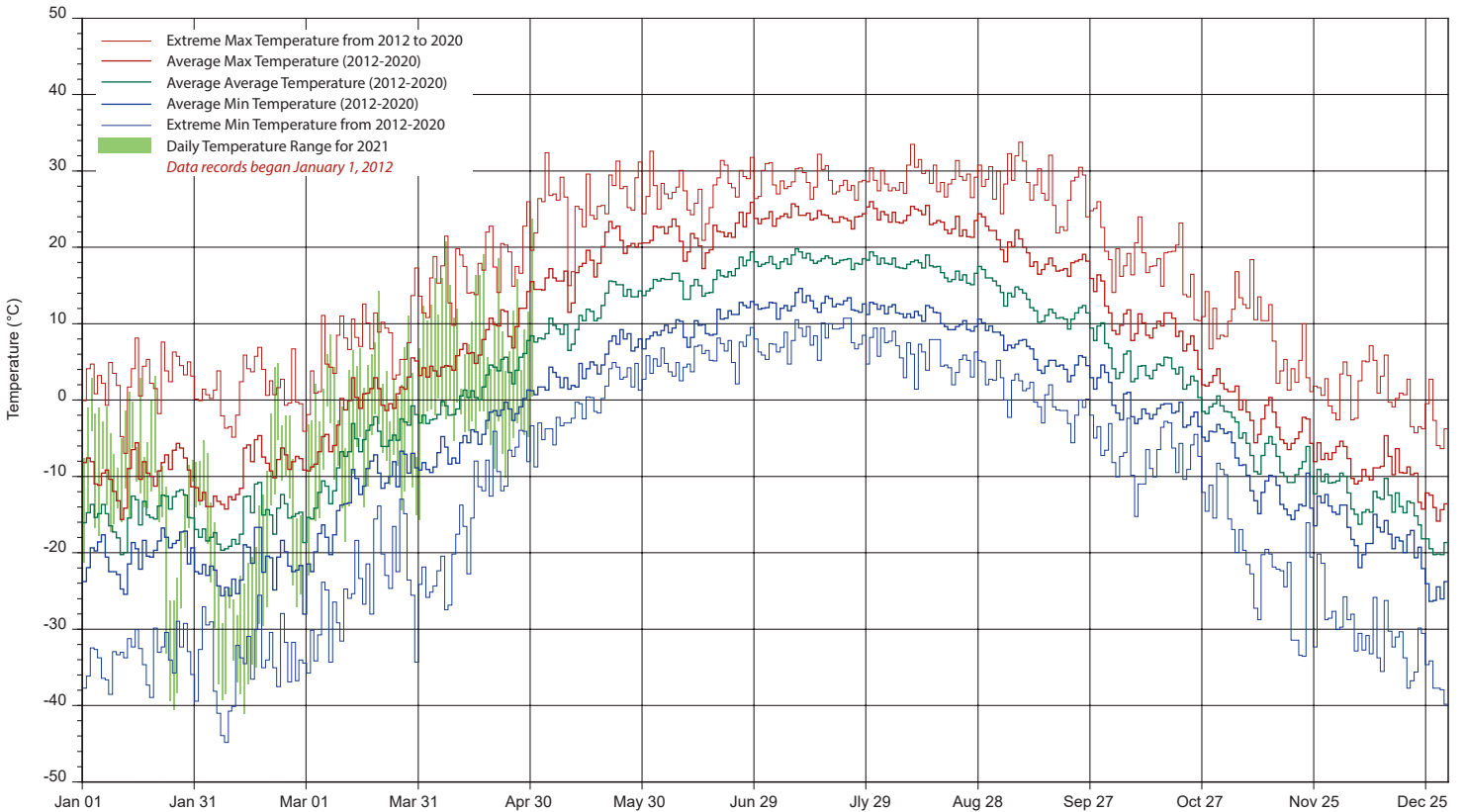
### 10 minute Average Wind Speed and Direction CLC April 2021



# SRC's CLIMATE REFERENCE STATION at the Conservation Learning Centre 2021 PRECIPITATION AND AVERAGE



## 2021 TEMPERATURES AND AVERAGES



SRC proudly recognizes the following CRS supporters:

