



# SRC CLIMATE REFERENCE STATION DAILY DATA REPORT

## CONSERVATION LEARNING CENTRE

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

Preliminary

**March 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	-3.2	-22.9	-13.1	0.0	31.1	0.0	0.0		36	88	64	1019	997
2	-2.7	-9.2	-6.0	0.0	24.0	0.0	0.0		36	95	69	1008	997
3	2.2	-15.8	-6.8	0.0	24.8	0.0	0.0		36	96	64	1016	1006
4	-2.8	-15.5	-9.2	0.0	27.2	0.0	0.2		35	97	80	1022	1016
5	1.4	-9.2	-3.9	0.0	21.9	0.0	0.2		36	99	90	1021	1011
6	6.0	-0.8	2.6	0.0	15.4	0.0	0.1		36	99	67	1011	999
7	8.5	-3.1	2.7	0.0	15.3	0.0	0.0		34	94	43	1012	1000
8	4.3	-10.4	-3.1	0.0	21.1	0.0	0.5		33	97	64	1017	1010
9	-2.7	-8.6	-5.7	0.0	23.7	0.0	0.1		33	93	57	1017	1010
10	-0.9	-14.2	-7.6	0.0	25.6	0.0	0.0		33	97	58	1018	1008
11	-6.3	-18.6	-12.5	0.0	30.5	0.0	0.0		33	93	57	1020	1016
12	3.9	-13.9	-5.0	0.0	23.0	0.0	0.4		33	93	65	1019	1013
13	6.5	-9.6	-1.6	0.0	19.6	0.0	0.3		33	96	54	1027	1019
14	4.4	-6.2	-0.9	0.0	18.9	0.0	0.0		33	91	70	1025	1009
15	6.7	-4.9	0.9	0.0	17.1	0.0	0.0		31	80	63	1015	1005
16	1.6	-14.0	-6.2	0.0	24.2	0.0	0.0		27	87	34	1017	1014
17	4.5	-11.3	-3.4	0.0	21.4	0.0	0.0		27	95	60	1021	1015
18	6.0	-4.6	0.7	0.0	17.3	0.0	0.0		27	96	67	1018	1010
19	7.6	-1.8	2.9	0.0	15.1	0.0	0.0		24	92	62	1010	1002
20	14.2	-3.2	5.5	0.5	12.5	0.0	0.0		19	98	31	1005	1003
21	2.1	-6.9	-2.4	0.0	20.4	0.0	0.0		15	88	41	1012	1002
22	3.8	-7.9	-2.1	0.0	20.1	0.0	0.8	discontinuous snowcover	14	93	59	1016	1007
23	-2.9	-11.1	-7.0	0.0	25.0	0.0	0.0		13	81	55	1027	1017
24	2.9	-7.1	-2.1	0.0	20.1	0.0	0.0		13	87	71	1019	1001
25	0.5	-8.6	-4.1	0.0	22.1	0.0	7.5	light snow	20	98	81	1010	1001
26	2.0	-14.4	-6.2	0.0	24.2	0.0	0.0		19	94	46	1012	1010
27	6.8	-12.0	-2.6	0.0	20.6	0.0	0.6		17	94	40	1017	1011
28	11.0	-3.1	4.0	0.0	14.0	0.0	0.0		17	86	59	1010	984
29	3.4	-11.5	-4.1	0.0	22.1	0.0	2.1		9	98	77	1004	980
30	-7.6	-15.1	-11.4	0.0	29.4	0.0	0.0		10	92	62	1020	1004
31	6.8	-15.7	-4.5	0.0	22.5	0.0	0.5		10	90	56	1021	1013
Total				0.5	670.2	0.0	13.3						
Avg	<b>2.8</b>	<b>-10.0</b>	<b>-3.6</b>				35.4	Cumulative ppt					
Extreme	14.2	-22.9					7.5		36	99	31	1027	980
Date	20	1					25		1	5	20	13	29

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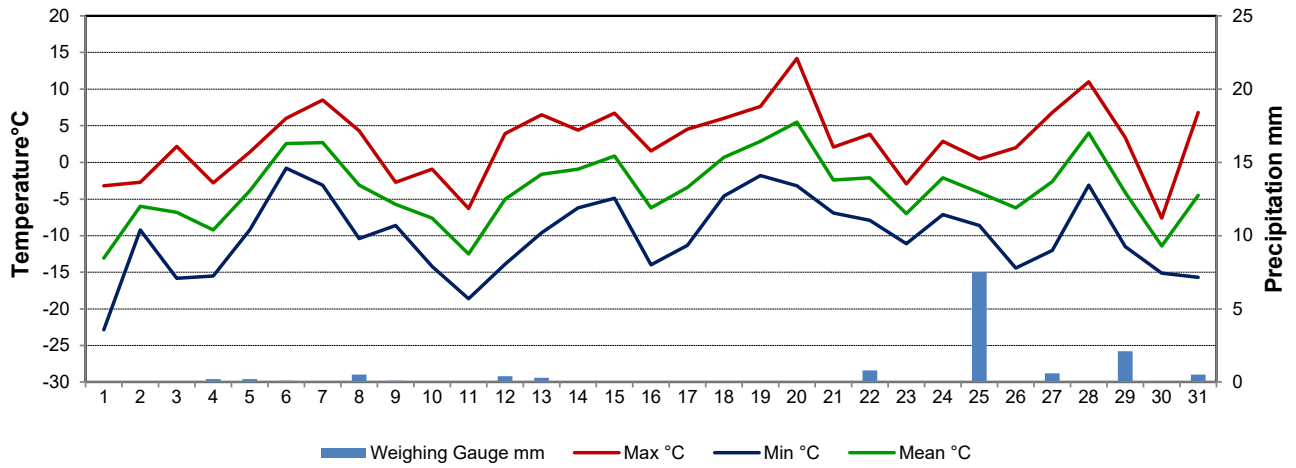


Agriculture and Agri-Food Canada

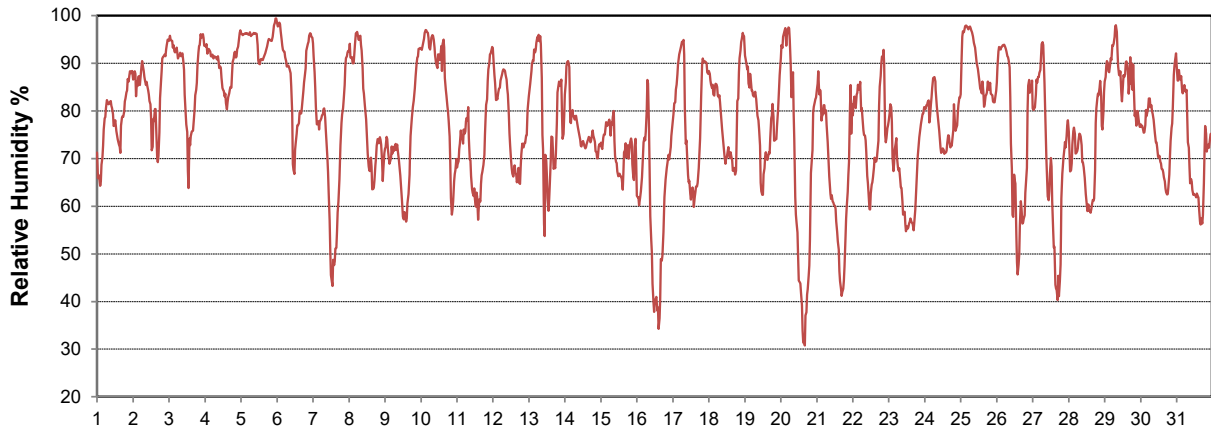
Agriculture et Agroalimentaire Canada



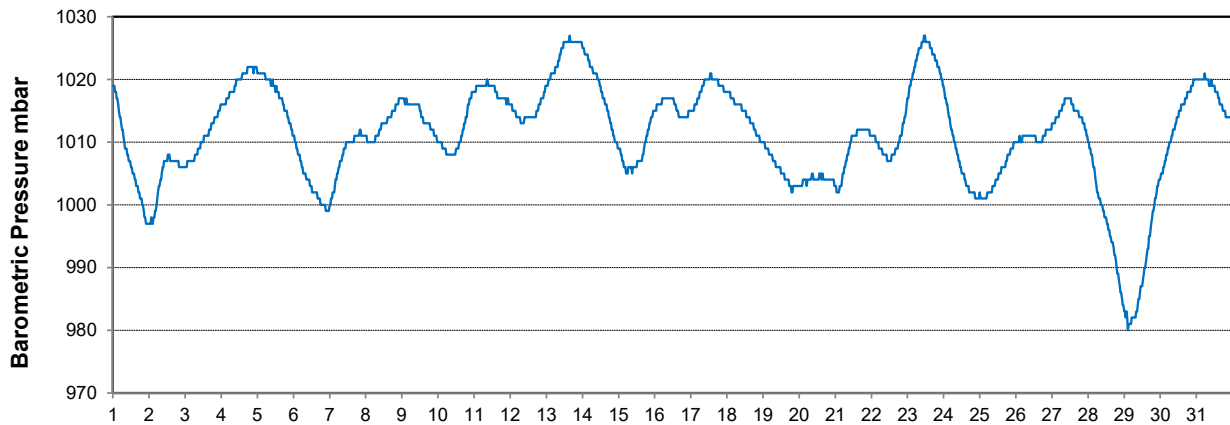
### Temperature and Precipitation for March 2021



### Relative Humidity for March 2021



### Barometric Pressure Corrected to Sea Level for March 2021





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## CONSERVATION LEARNING CENTRE

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

Preliminary

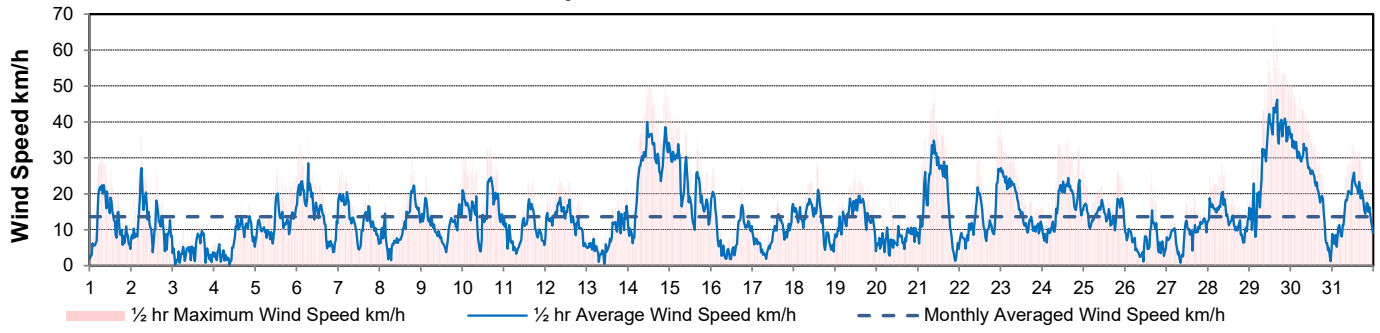
March 2021

Day	Wind Gust			Wind Speed (10 meters) Daily Average	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	Bright Sunshine Possible	% Possible	Global	Diffuse
	km/h			km/h	°C	°C	°C	°C	°C	°C	°C	°C	hours	hours		MJ/m <sup>2</sup>	MJ/m <sup>2</sup>
1	31.1	SSW	7:24	12.1	-11.5	-2.5	-2.5	-1.5	-0.5	0.5	2.0	4.0	5.1	10.9	46.8	9.2	6.6
2	35.9	NW	5:50	12.1	-6.0	-2.5	-2.5	-2.0	-0.5	0.5	1.5	4.0	5.4	11.0	49.3	10.2	5.7
3	11.9	SSE	14:23	4.3	-10.0	-2.0	-2.0	-1.5	-0.5	0.5	1.5	4.0	8.2	11.0	74.3	13.3	3.6
4	17.2	ENE	20:46	6.8	-10.0	-2.0	-2.0	-1.5	-0.5	0.5	1.5	4.0	9.4	11.1	84.7	13.5	3.7
5	27.3	SSE	13:02	12.0	-6.0	-2.0	-2.0	-1.5	-0.5	0.5	1.5	4.0	0.1	11.2	0.9	7.5	6.6
6	35.2	S	6:42	14.7	0.0	-1.5	-1.5	-1.5	-0.5	0.5	1.5	4.0	6.2	11.2	55.2	11.4	4.4
7	26.6	NW	2:24	12.9	-2.0	-1.5	-1.5	-1.0	-0.5	0.5	1.5	4.0	10.2	11.3	90.2	13.7	2.0
8	30.0	N	18:44	11.0	-8.0	-1.0	-1.0	-1.0	-0.5	0.5	1.5	4.0	10.9	11.4	95.9	15.8	2.5
9	25.0	ENE	2:47	11.3	-8.0	-1.0	-1.0	-1.0	-0.5	0.5	1.5	4.0	7.4	11.4	64.7	12.4	4.1
10	33.2	N	16:02	15.8	-3.0	-1.5	-1.5	-1.0	-0.5	0.5	1.5	3.5	0.1	11.5	0.9	4.6	4.2
11	24.4	SW	17:29	9.6	-16.5	-1.0	-1.0	-1.0	-0.5	0.5	1.5	4.0	10.8	11.6	93.3	15.1	2.6
12	24.9	SW	8:37	12.8	-8.0	-1.5	-1.5	-1.0	-0.5	0.5	1.5	4.0	8.6	11.7	73.8	12.9	6.3
13	22.0	E	23:16	7.5	-8.0	-1.5	-1.5	-1.0	-0.5	0.5	1.5	4.0	10.7	11.7	91.3	15.3	2.6
14	51.3	S	21:52	26.8	0.0	-1.5	-1.5	-1.0	-0.5	0.5	1.5	3.5	10.9	11.8	92.5	15.1	2.7
15	42.6	S	0:33	21.9	-0.5	-1.0	-1.0	-1.0	-0.5	0.5	1.5	3.5	9.6	11.9	80.9	14.4	3.0
16	27.5	N	1:30	9.1	-10.5	-0.5	-0.5	-0.5	-0.5	0.5	1.5	4.0	11.5	11.9	96.4	16.3	2.9
17	18.9	S	23:41	8.5	-8.5	-0.5	-0.5	-0.5	-0.5	0.5	1.5	4.0	11.6	12.0	96.7	16.7	2.7
18	28.7	S	14:13	12.7	-3.0	-0.5	-0.5	-0.5	-0.5	0.5	1.5	3.5	11.0	12.1	91.1	15.3	3.9
19	26.7	SSW	12:14	13.6	0.5	-0.5	-0.5	-0.5	-0.5	0.5	1.5	3.5	9.9	12.1	81.5	15.3	4.0
20	19.8	NW	11:16	7.2	1.5	-0.5	-0.5	-0.5	-0.5	0.5	1.5	3.5	8.2	12.2	67.2	13.6	3.6
21	49.0	NW	9:35	19.1	-1.5	0.0	-0.5	-0.5	-0.5	0.5	1.5	3.5	11.6	12.3	94.5	17.3	2.4
22	44.0	NNE	23:19	13.0	-3.5	0.0	-0.5	-0.5	-0.5	0.5	1.5	3.5	7.5	12.4	60.7	12.7	7.4
23	39.2	NE	0:24	16.5	-10.5	0.0	0.0	-0.5	0.0	0.5	1.5	3.5	4.5	12.4	36.2	11.4	8.7
24	35.3	SE	14:10	16.2	-4.5	0.0	-0.5	-0.5	-0.5	0.5	1.5	3.5	8.3	12.5	66.5	14.8	6.3
25	28.3	SE	0:29	14.7	-3.0	0.0	-0.5	-0.5	-0.5	0.5	1.5	3.5	0.1	12.6	0.8	10.2	9.2
26	26.4	WSW	15:38	6.5	-8.5	0.0	0.0	0.0	0.0	0.5	1.5	3.5	8.0	12.6	63.3	16.9	8.9
27	18.8	WSW	16:43	8.7	-8.0	0.0	0.0	0.0	0.0	0.5	1.5	3.5	10.4	12.7	81.9	17.1	4.4
28	28.3	S	8:45	13.7	1.0	0.0	-0.5	-0.5	-0.5	0.5	1.5	3.5	9.1	12.8	71.3	16.5	6.0
29	66.5	N	14:23	31.0	0.0	0.0	0.0	0.0	0.0	0.5	1.5	3.5	0.0	12.8	0.0	3.9	3.5
30	50.3	NW	0:56	23.1	-13.0	0.0	0.0	0.0	0.0	0.5	1.5	3.5	11.0	12.9	85.2	19.0	7.1
31	33.8	SW	12:30	15.8	-7.5	0.0	0.0	0.0	0.0	0.5	1.5	3.5	12.0	13.0	92.4	18.5	4.6
Total													248.3	369.9	67.1	419.9	146.2
Mean					-5.7	-0.9	-0.9	-0.8	-0.4	0.5	1.5	3.7					
Extreme	66.5	N	14:23														
Date	29																

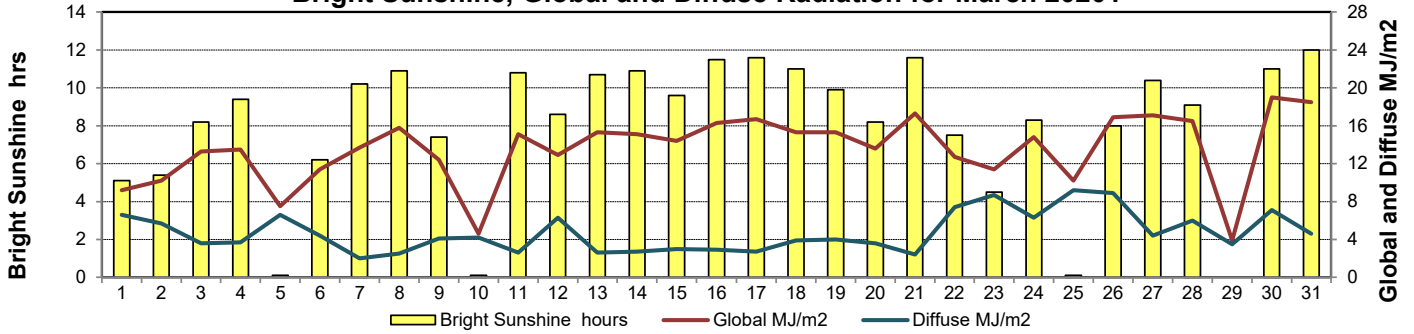
### GLOSSARY OF TERMS

<b>Degree-days</b>	<b>Radiation</b>
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	<b>Relative Humidity</b> The ratio of the air's water vapour content to its water vapour capacity which changes with temperature.
<b>SOG</b> Depth of snow-on-the-ground	
<b>Red Cell</b> no data available	<b>Air Pressure</b> The force exerted by the weight of a column of air above a given point
<b>Red Number</b> manual calculation	<b>Wind Gust</b> The daily highest instantaneous value recorded irrespective of direction and/or duration

### Wind Speed for March 2021

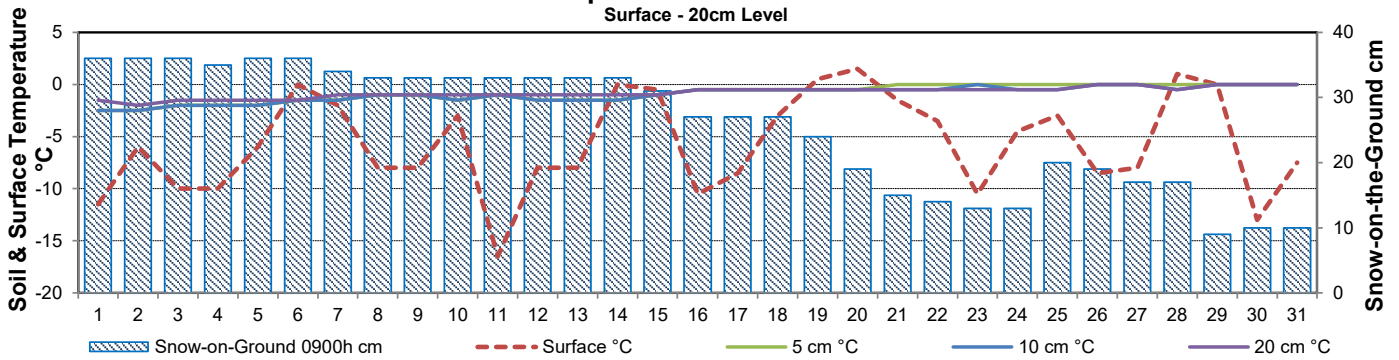


### Bright Sunshine, Global and Diffuse Radiation for March 202021



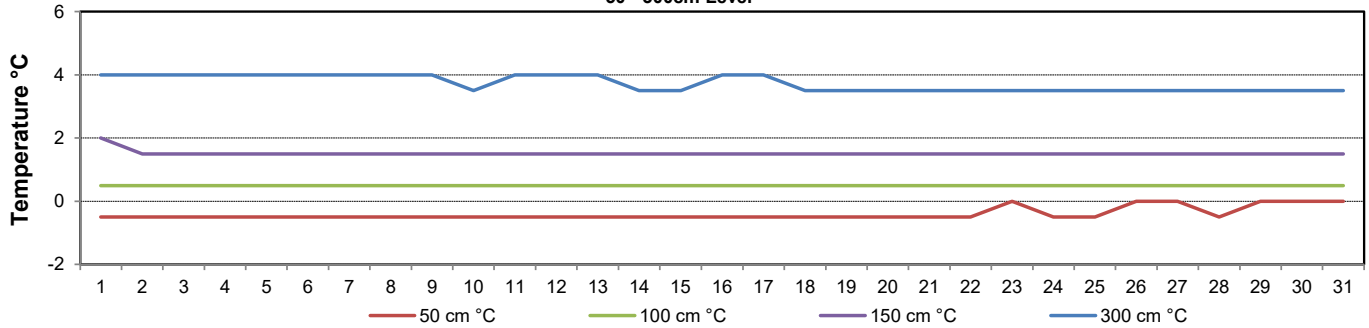
### Soil Temperatures for March 2021

Surface - 20cm Level



### Soil Temperatures for March 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

Preliminary

**March 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	10.0	18.9	27.2	14.5	18.0	29.5															
2	10.0	21.6	29.1	14.0	18.0	29.5															
3	2.0	8.8	11.6	14.5	17.5	30.0															
4	5.0	12.3	16.2	13.5	16.5	30.0															
5	8.0	16.5	22.7	14.5	17.0	29.0															
6	11.0	23.4	31.6	14.5	17.5	29.5															
7	10.0	15.8	20.6	14.0	16.5	29.0															
8	8.0	16.4	22.4	15.0	17.5	30.0															
9	9.0	15.0	22.7	14.5	17.5	30.0															
10	13.0	20.9	32.5	15.5	18.0	30.0															
11	7.0	16.3	21.8	15.5	18.5	29.5															
12	11.0	16.6	22.2	14.5	17.5	29.5															
13	6.0	13.4	18.7	14.5	18.0	30.5															
14	20.0	30.7	41.2	14.5	18.0	30.5															
15	17.0	26.2	33.7	16.0	18.5	30.0															
16	8.0	15.5	22.2	17.0	18.5	30.5															
17	6.0	12.0	16.4	8.5	17.5	31.0															
18	9.0	16.7	23.3	17.5	18.0	29.5															
19	10.0	15.5	23.7	18.0	18.5	31.0															
20	4.0	9.3	15.6	29.0	20.0	31.0															
21	14.0	25.5	35.2	32.5	23.0	32.0															
22	9.0	19.7	32.0	33.5	30.0	32.0															
23	13.0	20.3	31.0	34.0	35.0	33.0															
24	11.0	15.5	25.6	32.5	33.0	32.0															
25	11.0	14.9	21.4	34.0	35.5	33.0															
26	4.0	12.5	21.8	33.5	35.0	33.5															
27	6.0	9.9	16.8	33.0	33.5	33.5															
28	10.0	15.8	23.7	33.0	34.5	33.5															
29	23.0	34.8	52.5	37.5	40.5	45.5															
30	18.0	27.4	39.2	35.0	40.0	46.5															
31	13.0	3.0	29.0	35.0	38.5	47.0															
Total																					
Mean				22	24	32.3															
Extreme	23.0	34.8	52.5	37.5	40.5	47															
Date	0	0	0	0	0	0															

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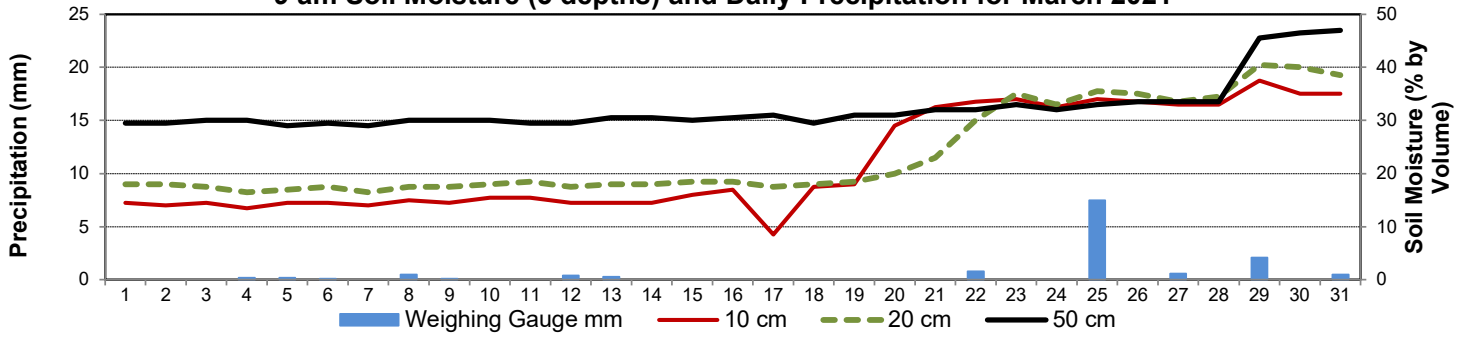
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Agroalimentaire Canada

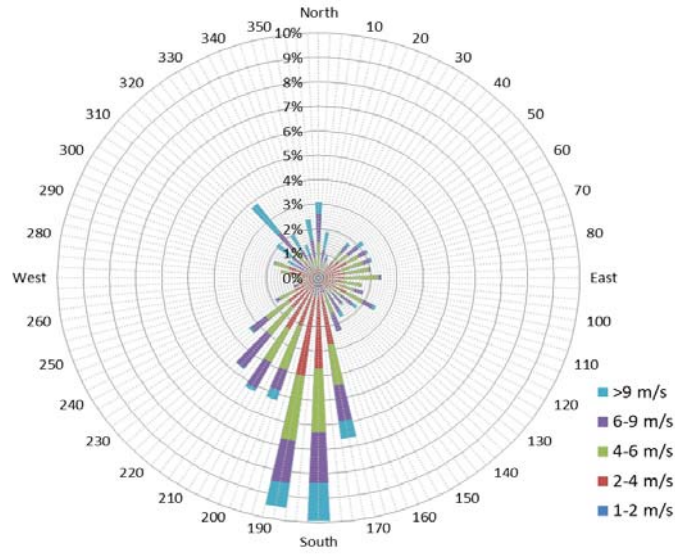


**CAMPBELL  
SCIENTIFIC**  
WHEN MEASUREMENTS MATTER

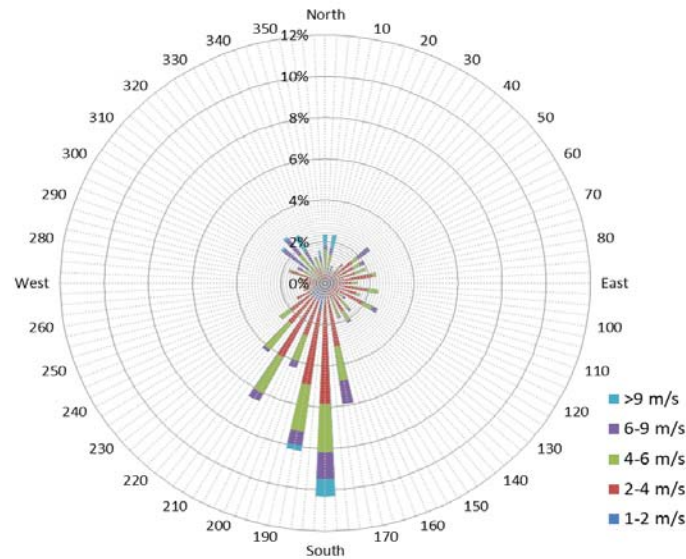
### 9 am Soil Moisture (3 depths) and Daily Precipitation for March 2021



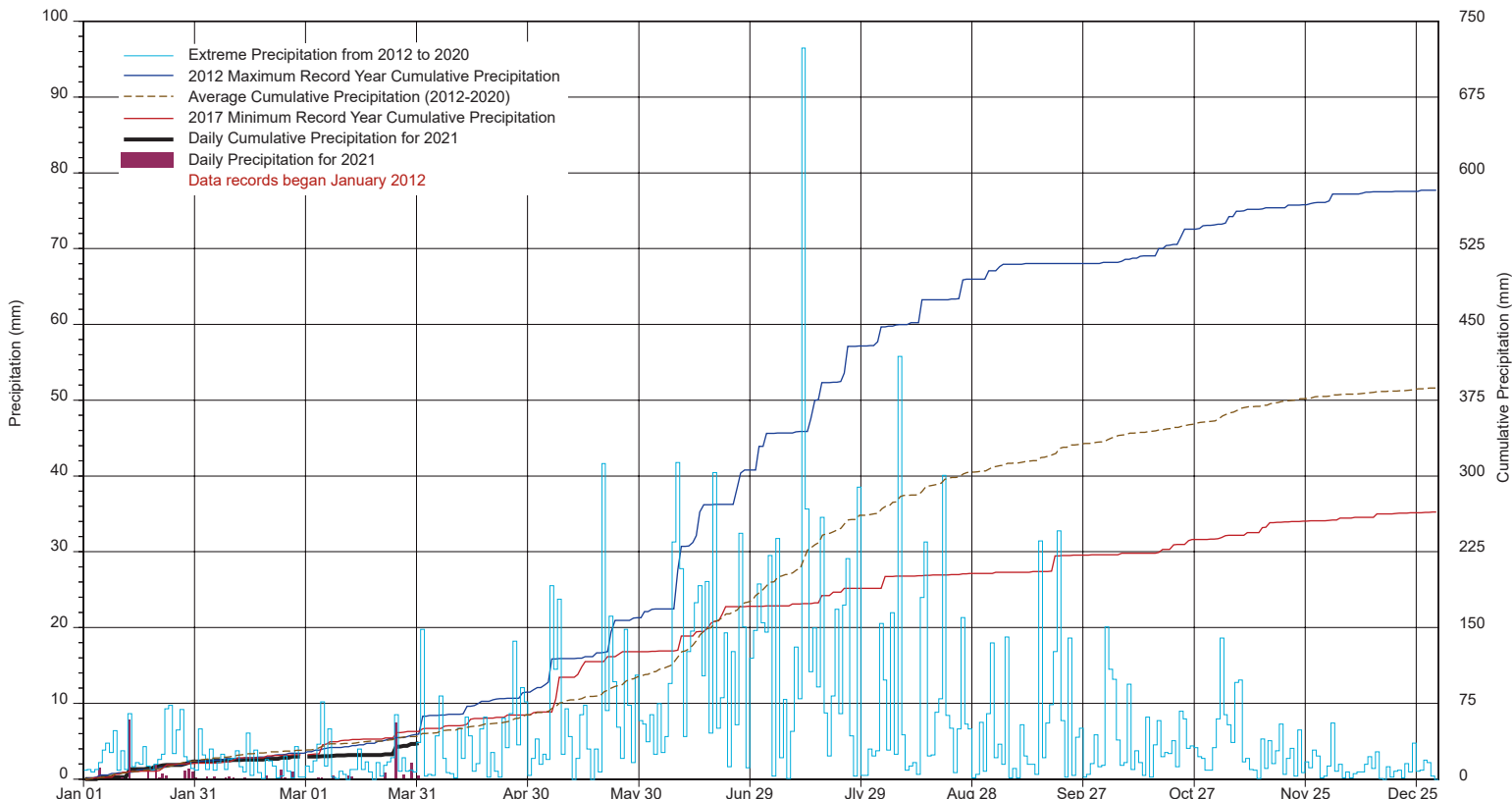
### 1/2 hr Maximum Wind Speed and Direction CLC March 2021



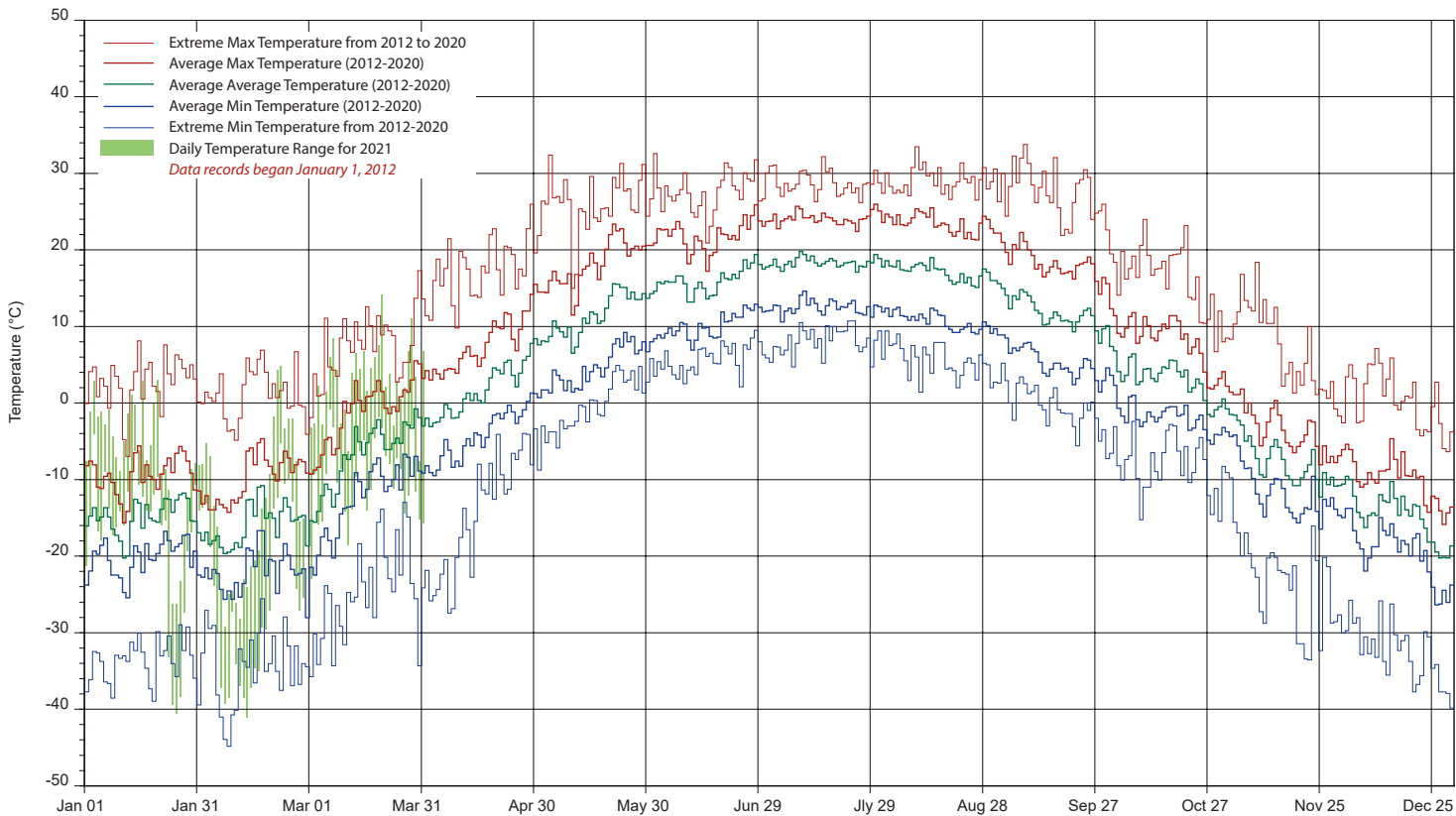
### 10 minute Average Wind Speed and Direction CLC March 2021



# 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:

