



# SRC CLIMATE REFERENCE STATION DAILY DATA REPORT

## CONSERVATION LEARNING CENTRE

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

Preliminary

**June 2021**

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	26.9	9.2	18.1	13.1	0.0	0.1	0.1	0.0		87	31	1016	1009
2	31.5	12.0	21.8	16.8	0.0	3.8	0.0	0.0		78	29	1009	1004
3	34.7	11.9	23.3	18.3	0.0	5.3	0.2	0.0		90	18	1006	998
4	29.5	15.2	22.4	17.4	0.0	4.4	0.0	0.0		77	16	1004	1000
5	26.8	11.1	19.0	14.0	0.0	1.0	4.3	4.2		98	39	1000	995
6	19.2	8.7	14.0	9.0	4.0	0.0	2.4	3.0		99	57	1003	995
7	20.8	7.1	14.0	9.0	4.0	0.0	4.5	5.8		100	46	1010	1004
8	23.9	5.0	14.5	9.5	3.5	0.0	1.1	1.2		100	33	1018	1010
9	22.0	12.9	17.5	12.5	0.5	0.0	0.0	0.0		91	52	1019	1016
10	21.6	13.0	17.3	12.3	0.7	0.0	19.4	19.2		97	67	1016	1005
11	15.7	12.0	13.9	8.9	4.1	0.0	27.9	28.6		100	76	1006	1001
12	24.1	11.0	17.6	12.6	0.4	0.0	0.0	0.0		93	34	1012	1006
13	27.3	11.1	19.2	14.2	0.0	1.2	0.0	0.0		77	24	1017	1012
14	31.5	12.9	22.2	17.2	0.0	4.2	0.0	0.0		71	30	1018	1015
15	33.2	17.7	25.5	20.5	0.0	7.5	0.0	0.0		61	31	1016	1004
16	24.0	14.2	19.1	14.1	0.0	1.1	1.9	2.0		92	31	1008	1003
17	18.1	8.1	13.1	8.1	4.9	0.0	0.0	0.0		83	45	1009	1006
18	19.0	10.1	14.6	9.6	3.4	0.0	4.4	4.6		98	59	1014	1010
19	19.6	6.6	13.1	8.1	4.9	0.0	4.1	4.6		100	59	1012	1006
20	15.7	5.4	10.6	5.6	7.4	0.0	0.4	0.6		98	49	1018	1009
21	23.6	2.0	12.8	7.8	5.2	0.0	5.2	5.4		99	39	1018	1005
22	28.9	10.0	19.5	14.5	0.0	1.5	0.0	0.0		99	36	1005	996
23	22.4	12.9	17.7	12.7	0.3	0.0	0.0	0.0		84	47	1009	996
24	26.0	10.9	18.5	13.5	0.0	0.5	0.0	0.0		92	37	1012	1009
25	26.0	9.2	17.6	12.6	0.4	0.0	1.9	1.8		98	48	1012	1008
26	29.1	14.2	21.7	16.7	0.0	3.7	2.4	3.0		98	39	1015	1011
27	26.2	14.6	20.4	15.4	0.0	2.4	0.0	0.0		99	43	1020	1014
28	29.5	11.1	20.3	15.3	0.0	2.3	0.1	0.0		100	39	1020	1016
29	33.8	14.8	24.3	19.3	0.0	6.3	0.0	0.0		94	35	1017	1015
30	34.0	15.9	25.0	20.0	0.0	7.0	0.0	0.0		100	38	1018	1016
Total				398.6	43.7	52.3	80.3	84.0					
Avg	<b>25.5</b>	<b>11.0</b>	<b>18.3</b>				150.6	Cumulative ppt					
Extreme	34.7	2.0					27.9	28.6		100	16	1020	995
Date	3	21					11	11		7	4	27	5

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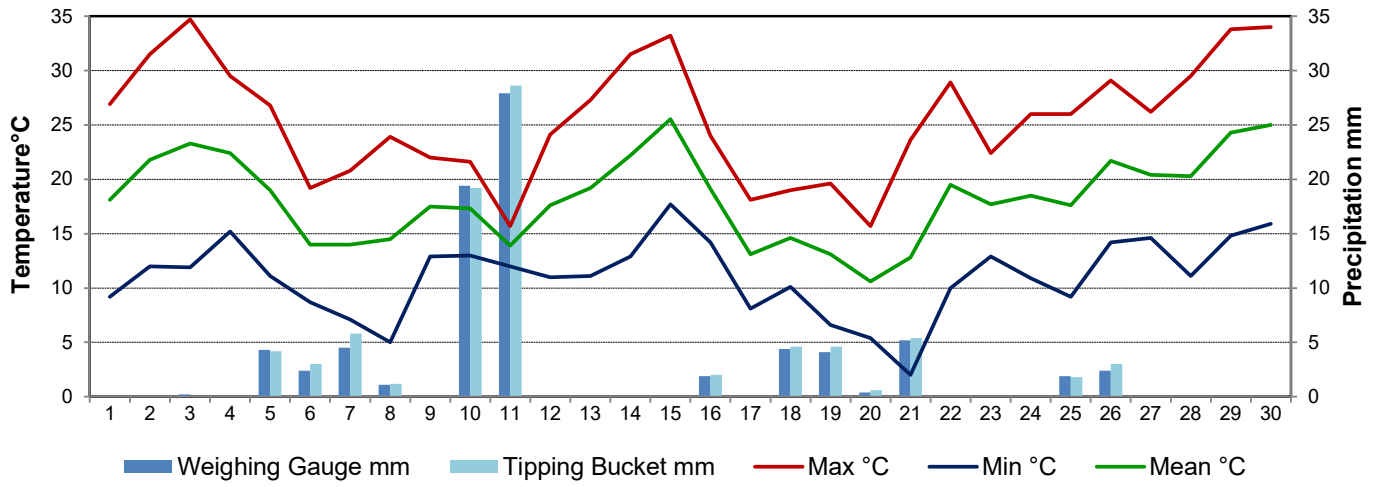


Agriculture and Agri-Food Canada

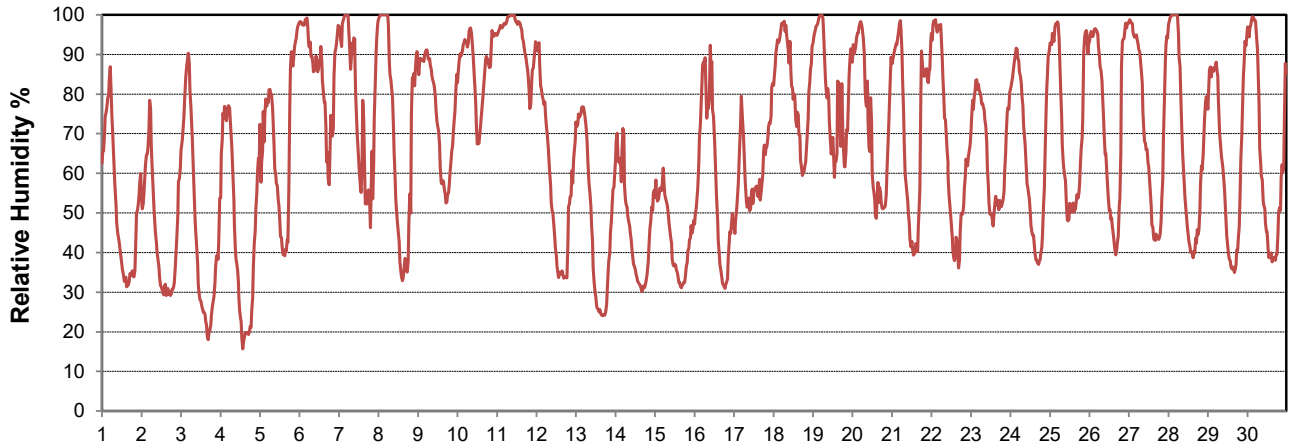
Agriculture et Agroalimentaire Canada



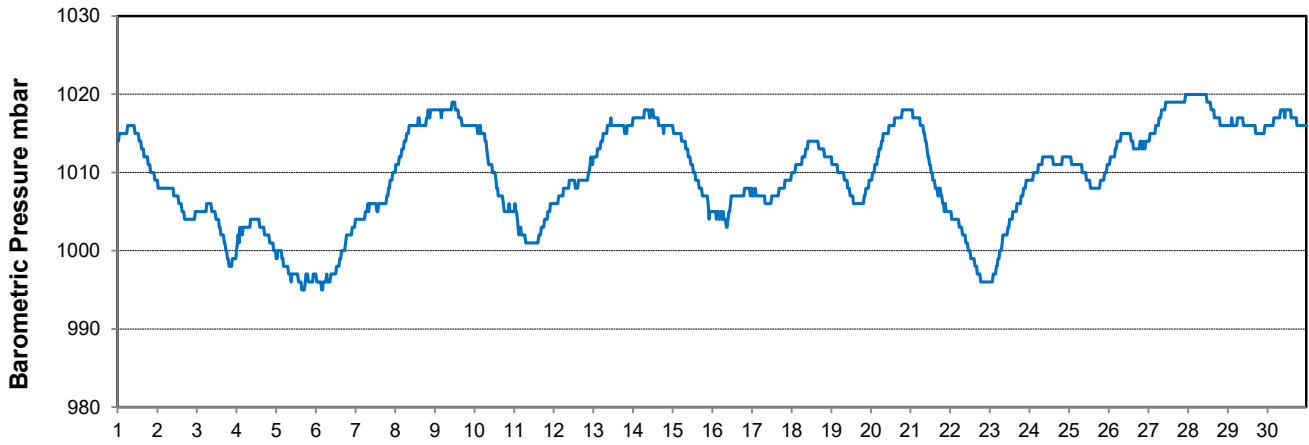
### Temperature and Precipitation for June 2021



### Relative Humidity for June 2021



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





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## CONSERVATION LEARNING CENTRE

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

Preliminary

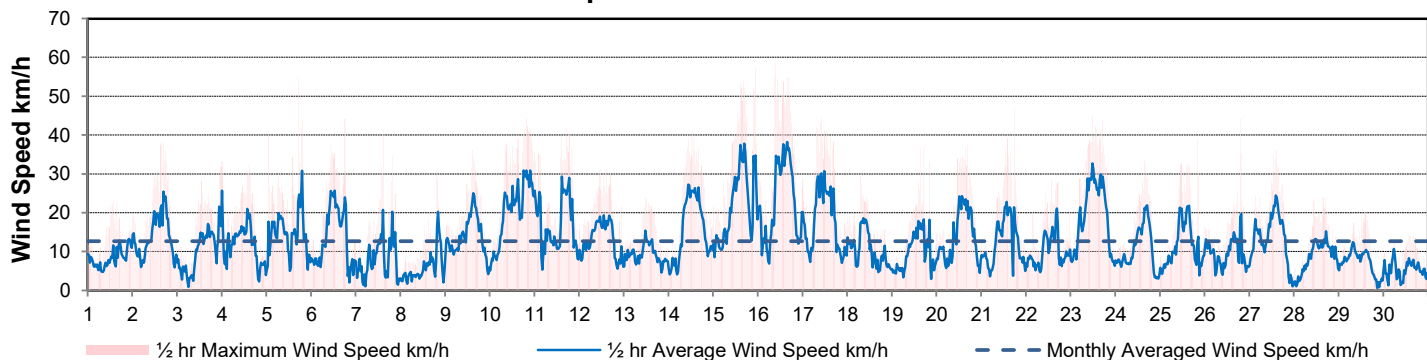
June 2021

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	Possible	% Possible	Global	Diffuse
	km/h				°C	°C	°C	°C	°C	°C	°C	°C	hours	hours		MJ/m <sup>2</sup>	MJ/m <sup>2</sup>
1	23.3	W	13:51	8.1	19.5	11.5	12.0	11.0	8.5	6.0	4.5	3.5	10.8	16.6	65.0	23.5	7.7
2	38.1	WSW	15:40	14.2	25.5	13.0	13.0	11.5	9.0	6.5	4.5	3.5	13.0	16.6	78.1	24.6	9.0
3	32.0	N	23:59	10.3	23.5	13.5	13.5	12.5	9.5	6.5	5.0	3.5	14.9	16.7	89.4	27.4	6.2
4	33.3	N	0:09	12.1	24.0	15.0	15.0	13.5	10.0	7.0	5.0	3.5	13.8	16.7	82.6	27.3	7.0
5	54.4	NW	17:20	14.8	19.0	15.0	15.0	13.5	11.0	7.0	5.0	3.5	10.0	16.7	59.8	19.2	9.6
6	44.0	NNE	18:26	13.6	15.0	13.5	14.0	13.0	11.0	7.5	5.0	3.5	5.2	16.8	31.0	15.8	10.3
7	41.3	W	14:32	7.8	11.5	12.0	13.0	12.5	11.0	7.5	5.5	3.5	8.0	16.8	47.7	20.2	5.7
8	31.5	N	19:56	6.0	14.0	12.0	13.0	12.5	11.0	8.0	5.5	3.5	10.7	16.8	63.7	22.6	7.1
9	36.1	ENE	14:39	13.9	15.0	14.0	15.0	13.5	11.0	8.0	5.5	3.5	3.3	16.8	19.6	16.0	11.9
10	44.4	ESE	19:55	20.3	14.5	14.0	14.5	13.5	11.0	8.0	6.0	3.5	3.3	16.8	19.6	11.6	6.7
11	41.8	NW	17:10	16.6	14.0	14.0	14.5	13.5	11.0	8.0	6.0	3.5	0.4	16.9	2.4	6.1	5.4
12	31.2	WNV	11:24	13.4	18.0	13.0	13.5	13.0	11.5	8.5	6.0	3.5	13.8	16.9	81.8	26.9	7.1
13	23.7	NW	11:51	9.4	19.0	14.0	14.5	14.0	12.0	9.0	6.5	3.5	16.5	16.9	97.7	30.6	3.4
14	41.1	S	12:41	15.7	23.0	15.0	15.5	14.5	12.0	9.0	6.5	4.0	16.4	16.9	97.0	29.9	3.6
15	57.3	S	22:35	21.5	23.0	16.0	16.5	15.0	12.5	9.0	6.5	4.0	13.5	16.9	79.8	28.8	4.1
16	58.5	W	9:32	22.6	21.0	17.5	18.0	16.0	13.0	9.5	6.5	4.0	10.4	16.9	61.5	24.1	7.8
17	44.2	W	10:06	17.9	17.5	14.5	16.0	15.0	13.0	9.5	7.0	4.0	6.2	16.9	36.6	14.9	9.2
18	30.0	N	7:13	10.3	12.0	14.0	15.0	14.5	13.0	9.5	7.0	4.0	7.2	16.9	42.5	16.8	10.2
19	37.3	NNE	17:24	9.7	16.5	13.5	14.5	14.0	13.0	10.0	7.0	4.0	8.1	16.9	47.8	17.6	10.2
20	37.7	N	16:41	13.8	13.0	13.5	14.5	14.0	12.5	10.0	7.5	4.0	8.5	16.9	50.2	21.7	10.7
21	47.0	N	17:48	12.3	14.0	12.0	13.0	13.0	12.5	10.0	7.5	4.0	9.4	16.9	55.5	22.1	6.0
22	28.4	WSW	13:35	9.8	17.0	13.5	14.0	13.5	12.5	10.0	7.5	4.0	11.1	16.9	65.6	25.0	7.9
23	45.0	NW	11:56	19.2	18.0	15.5	16.0	15.0	12.5	10.0	7.5	4.0	10.6	16.9	62.6	25.1	7.7
24	33.6	NW	15:54	10.5	18.5	15.0	15.5	14.5	13.0	10.0	8.0	4.5	13.7	16.9	81.0	25.2	9.7
25	39.1	NNW	20:28	11.5	21.5	15.0	16.0	15.0	13.0	10.0	8.0	4.5	7.9	16.9	46.7	17.5	11.6
26	44.2	N	19:21	9.5	21.0	16.0	16.5	15.5	13.5	10.5	8.0	4.5	12.5	16.9	73.9	26.8	4.8
27	36.2	N	14:32	13.6	21.0	17.0	17.5	16.0	13.5	10.5	8.0	4.5	15.9	16.9	94.1	28.6	5.8
28	24.0	SW	15:54	8.5	21.5	16.5	17.0	16.0	14.0	10.5	8.0	4.5	14.1	16.9	83.5	28.2	5.4
29	20.4	WSW	14:16	7.2	23.5	17.5	18.0	17.0	14.5	11.0	8.0	4.5	14.4	16.9	85.4	27.8	5.6
30	14.7	S	16:16	5.5	24.5	18.5	19.0	17.5	14.5	11.0	8.5	4.5	15.7	16.9	93.2	28.3	5.2
Total													319.3	505.5	63.2	680.2	222.6
Mean					18.6	14.5	15.1	14.1	12.0	8.9	6.6	3.9					
Extreme	58.5	W	9:32														
Date	16																

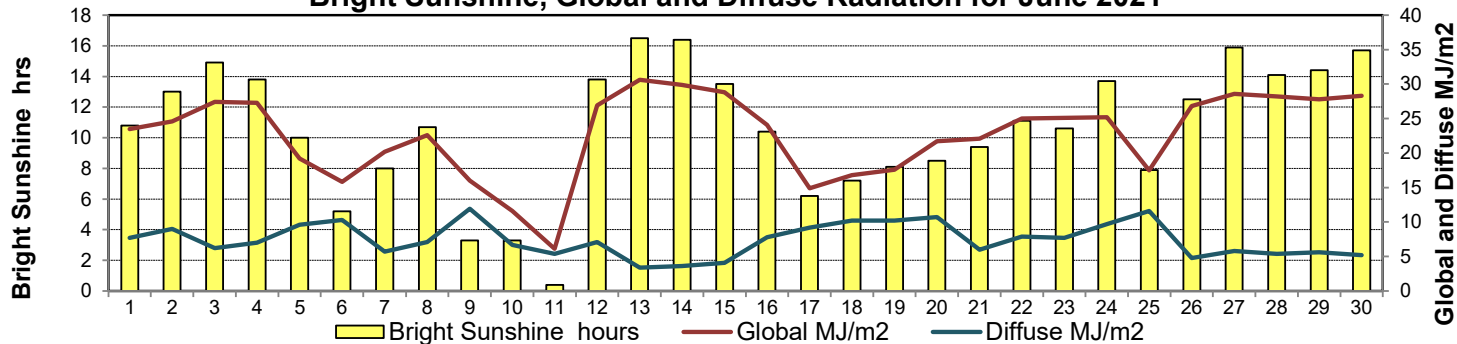
### GLOSSARY OF TERMS

<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 June 2021

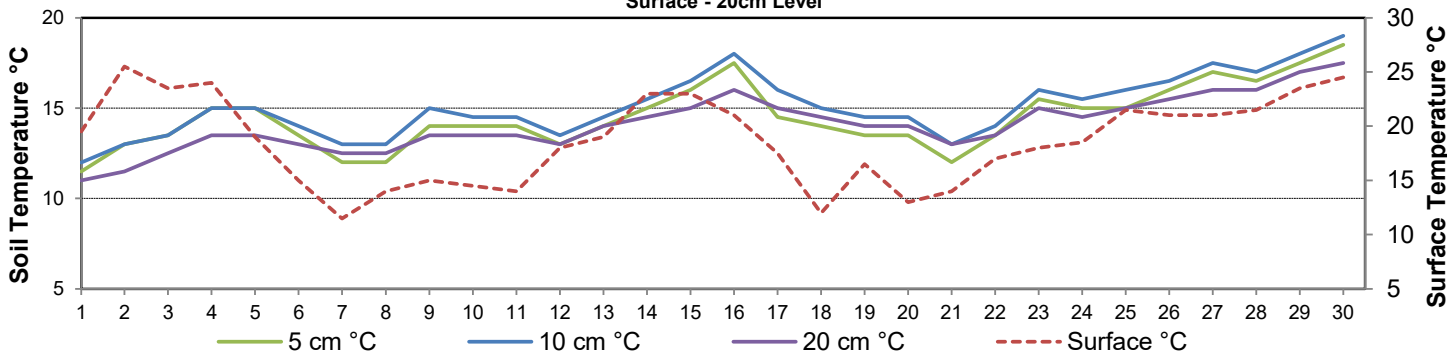


### Bright Sunshine, Global and Diffuse Radiation for June 2021



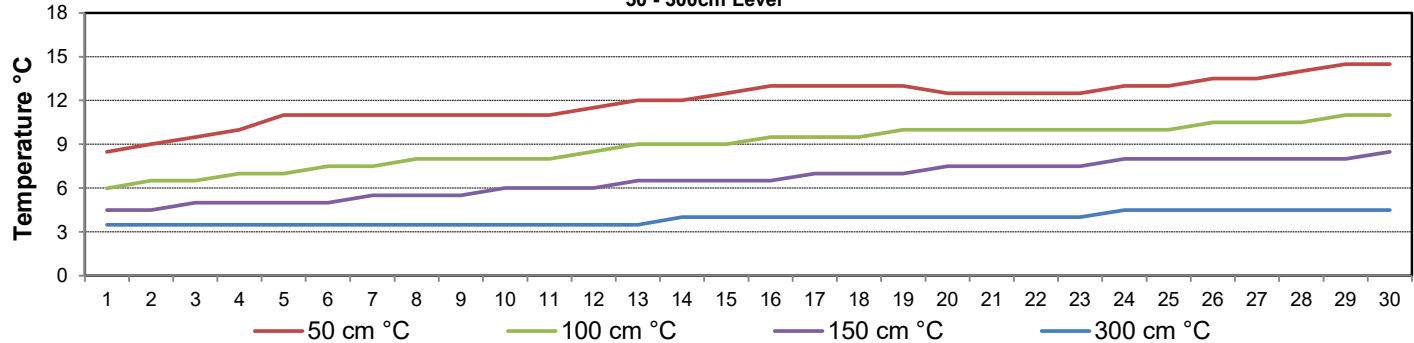
### Soil Temperatures for June 2021

Surface - 20cm Level



### Soil Temperatures for June 2021

50 - 300cm Level





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## CONSERVATION LEARNING CENTRE

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

Preliminary

June 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	6.0	10.8	19.1	32.0	37.5	44.0								
2	11.0	19.9	32.1	31.5	37.5	43.5								
3	8.0	15.3	25.8	31.0	37.5	44.0								
4	9.0	19.4	26.6	30.0	38.0	44.0								
5	11.0	22.9	40.8	28.0	36.5	44.5								
6	10.0	20.4	30.0	28.0	37.5	44.5								
7	6.0	15.6	30.2	28.5	37.0	44.5								
8	4.0	15.1	23.7	28.0	36.5	43.5								
9	10.0	19.6	30.2	28.5	35.0	43.5								
10	15.0	23.5	35.0	27.5	37.0	43.0								
11	13.0	21.9	29.6	39.5	42.0	45.0								
12	10.0	15.4	25.4	35.5	39.5	46.5								
13	7.0	12.4	19.9	35.5	38.0	46.5								
14	10.0	20.4	32.0	34.5	38.5	45.0								
15	14.0	26.4	42.1	32.5	39.5	46.0								
16	17.0	29.0	44.2	30.5	39.0	46.0								
17	14.0	23.6	35.2	31.0	37.5	46.5								
18	8.0	14.3	23.9	31.5	38.0	45.5								
19	7.0	14.2	27.7	30.5	38.5	46.0								
20	10.0	18.6	29.3	31.0	38.0	45.0								
21	9.0	17.5	35.0	31.0	38.0	45.0								
22	7.0	16.5	25.4	31.0	38.0	45.0								
23	15.0	24.7	35.6	30.0	38.5	43.5								
24	8.0	16.8	27.0	29.5	38.5	45.0								
25	8.0	16.9	28.1	29.5	38.0	44.0								
26	7.0	14.9	32.1	29.5	37.5	44.5								
27	10.0	18.5	27.5	29.5	36.5	44.0								
28	6.0	12.3	18.9	29.5	37.5	44.5								
29	5.0	10.5	16.8	28.0	35.5	43.5								
30	4.0	7.6	13.1	26.5	37.5	44.0								
Total														
Mean				31	38	44.7								
Extreme	17.0	29.0	44.2	39.5	42	46.5								
Date	0	0	0	0	0	0								

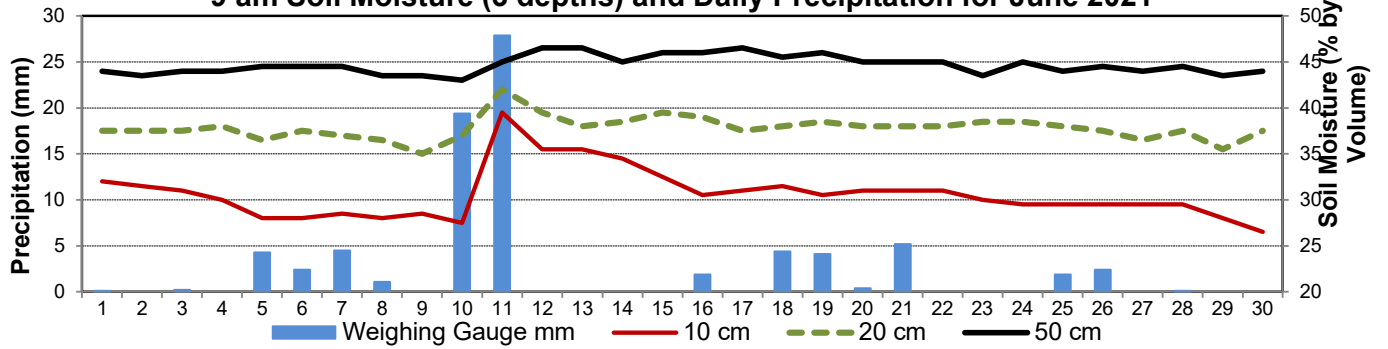
June 21, 2021 New datalogger program installed @ 08:35

added correction factor of 1.5 to Global and Diffuse daily readings

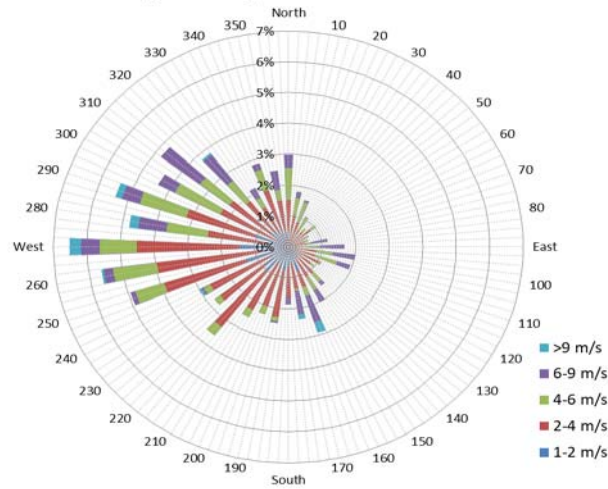
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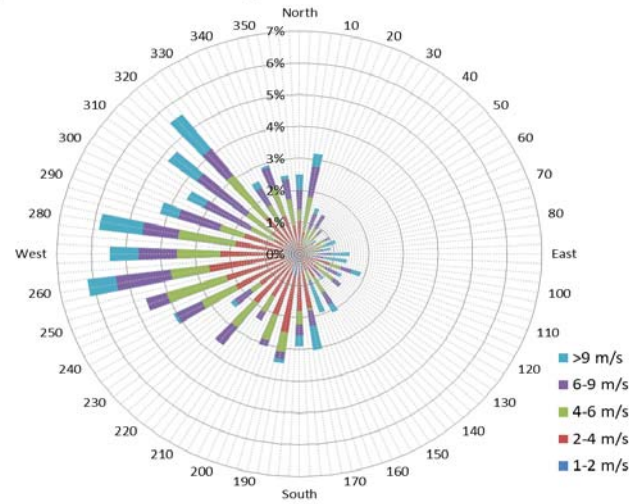
### 9 am Soil Moisture (3 depths) and Daily Precipitation for June 2021



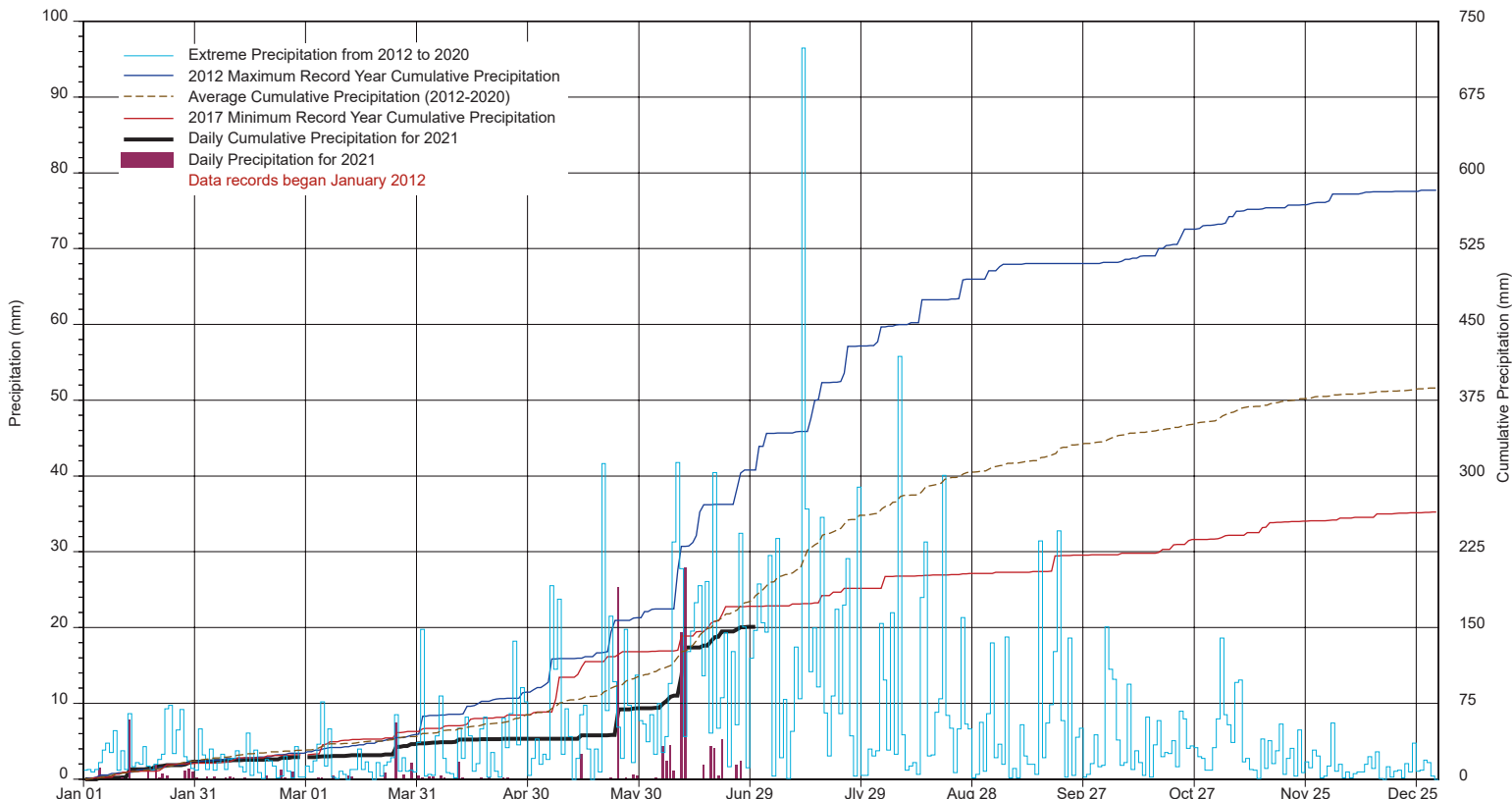
### 10 minute Average Wind Speed and Direction CLC June 2021



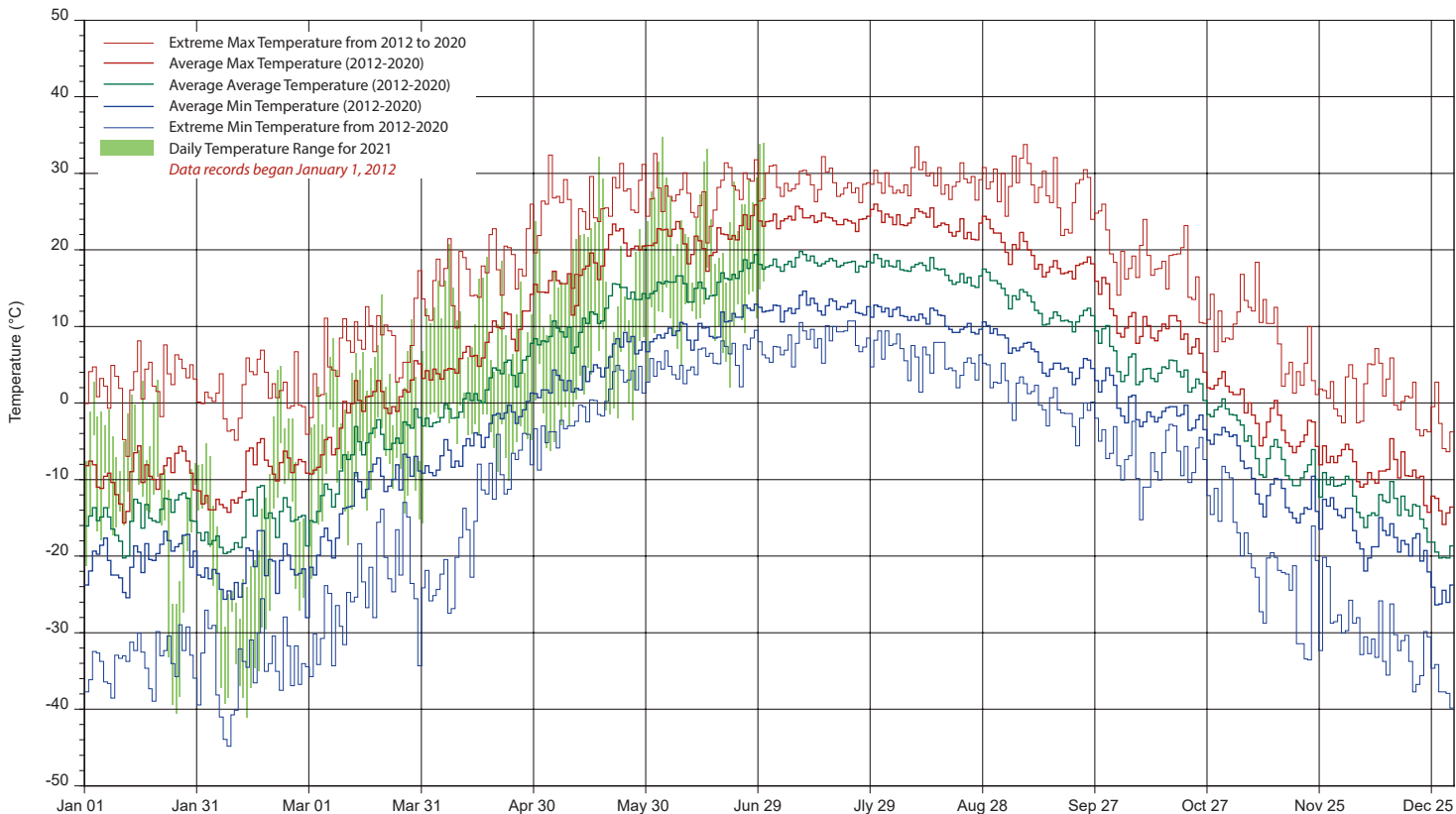
### 1/2 hr Maximum Wind Speed and Direction CLC June 2021



# 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:

