



# SRC CLIMATE REFERENCE STATION DAILY DATA REPORT

## CONSERVATION LEARNING CENTRE

Saskatchewan 53.03°N 105.77°W Estab. 2011

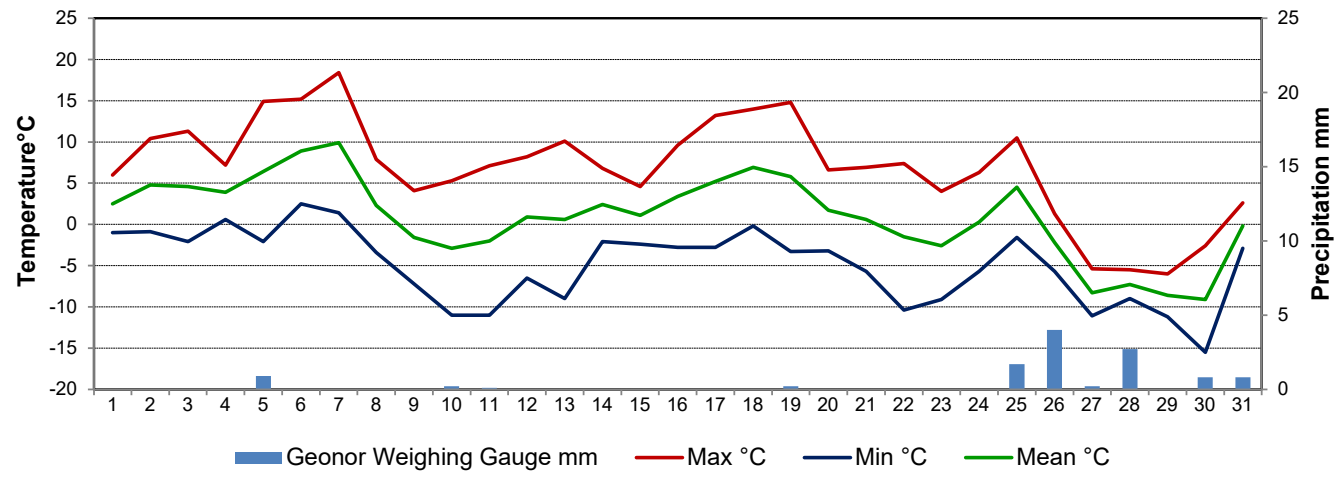
Preliminary **October 2019**

Day	Temperature			Degree-days			Precipitation			Relative Humidity		Station Pressure <i>corrected to sea level</i>	
	Max	Min	Mean	Growing	Heating	Cooling	Geonor Weighing Gauge	Tipping Bucket	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	mm	cm	%	%	mbar	mbar
1	6.0	-1.0	2.5	0.0	15.5	0.0	0.0	0.0	0	100	67	1023	1020
2	10.4	-0.9	4.8	0.0	13.2	0.0	0.0	0.0	0	96	46	1022	1019
3	11.3	-2.1	4.6	0.0	13.4	0.0	0.0	0.0	Tipping bucket shut off for season	100	59	1020	1017
4	7.2	0.6	3.9	0.0	14.1	0.0	0.0	0.0		0	100	82	1016
5	14.9	-2.1	6.4	1.4	11.6	0.0	0.9	0.0	0	100	53	1009	1003
6	15.2	2.5	8.9	3.9	9.1	0.0	0.0	0.0	0	94	39	1009	1005
7	18.4	1.4	9.9	4.9	8.1	0.0	0.0	0.0	0	89	31	1008	990
8	7.9	-3.4	2.3	0.0	15.7	0.0	0.0	0.0	0	87	57	1016	990
9	4.1	-7.2	-1.6	0.0	19.6	0.0	0.0	0.0	0	89	43	1026	1016
10	5.3	-11.0	-2.9	0.0	20.9	0.0	0.2	0.0	0	95	33	1028	1024
11	7.1	-11.0	-2.0	0.0	20.0	0.0	0.1	0.0	0	96	34	1024	1018
12	8.2	-6.5	0.9	0.0	17.1	0.0	0.0	0.0	0	94	34	1018	1012
13	10.1	-9.0	0.6	0.0	17.4	0.0	0.0	0.0	0	95	27	1012	1008
14	6.8	-2.1	2.4	0.0	15.6	0.0	0.0	0.0	0	85	48	1017	1007
15	4.6	-2.4	1.1	0.0	16.9	0.0	0.0	0.0	0	97	59	1022	1016
16	9.6	-2.8	3.4	0.0	14.6	0.0	0.0	0.0	0	99	56	1016	1005
17	13.2	-2.8	5.2	0.2	12.8	0.0	0.0	0.0	0	100	56	1004	991
18	14.0	-0.2	6.9	1.9	11.1	0.0	0.0	0.0	0	98	44	996	991
19	14.8	-3.3	5.8	0.8	12.2	0.0	0.2	0.0	0	99	31	1000	996
20	6.6	-3.2	1.7	0.0	16.3	0.0	0.0	0.0	0	96	60	1011	1000
21	6.9	-5.7	0.6	0.0	17.4	0.0	0.0	0.0	0	99	58	1016	1011
22	7.4	-10.4	-1.5	0.0	19.5	0.0	0.0	0.0	0	98	46	1016	1010
23	4.0	-9.1	-2.6	0.0	20.6	0.0	0.0	0.0	0	97	54	1023	1014
24	6.3	-5.7	0.3	0.0	17.7	0.0	0.0	0.0	0	100	55	1022	1007
25	10.5	-1.6	4.5	0.0	13.5	0.0	1.7	0.0	0	98	61	1007	992
26	1.3	-5.7	-2.2	0.0	20.2	0.0	4.0	0.0	2	100	79	1019	997
27	-5.4	-11.1	-8.3	0.0	26.3	0.0	0.2	0.0	1	95	79	1020	1010
28	-5.5	-9.0	-7.3	0.0	25.3	0.0	2.7	0.0	3	95	79	1019	1010
29	-6.0	-11.2	-8.6	0.0	26.6	0.0	0.0	0.0	4	87	71	1021	1019
30	-2.6	-15.5	-9.1	0.0	27.1	0.0	0.8	0.0	3	92	60	1021	1008
31	2.6	-2.9	-0.2	0.0	18.2	0.0	0.8	0.0	4	96	86	1014	1007
Total				13.1	527.6	0.0	11.6						
Avg	6.9	-5.0	1.0				287.1		Cumulative ppt				
Extreme	18.4	-15.5					4.0		4	100	27	1028	990
Date	7	30					26			1	13	10	7

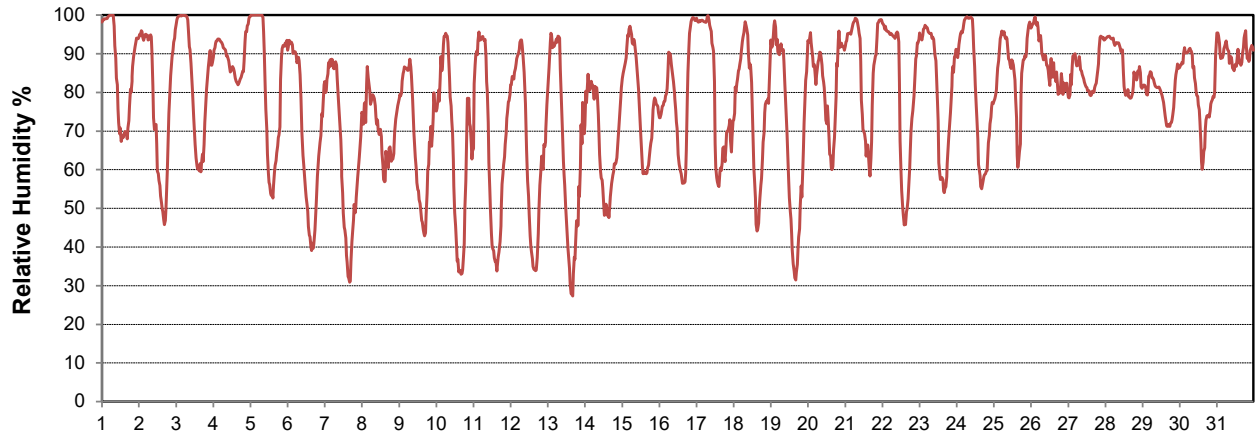
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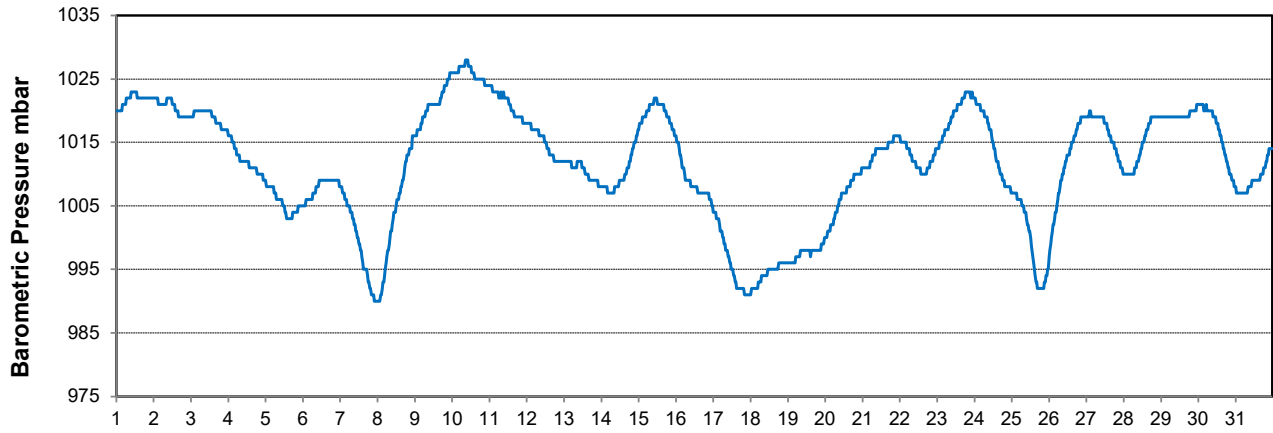
### Temperature and Precipitation for October 2019



### Relative Humidity for October 2019



### Barometric Pressure Corrected to Sea Level for October 2019





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## CONSERVATION LEARNING CENTRE

Saskatchewan 53.03°N 105.77°W Estab. 2011

Preliminary

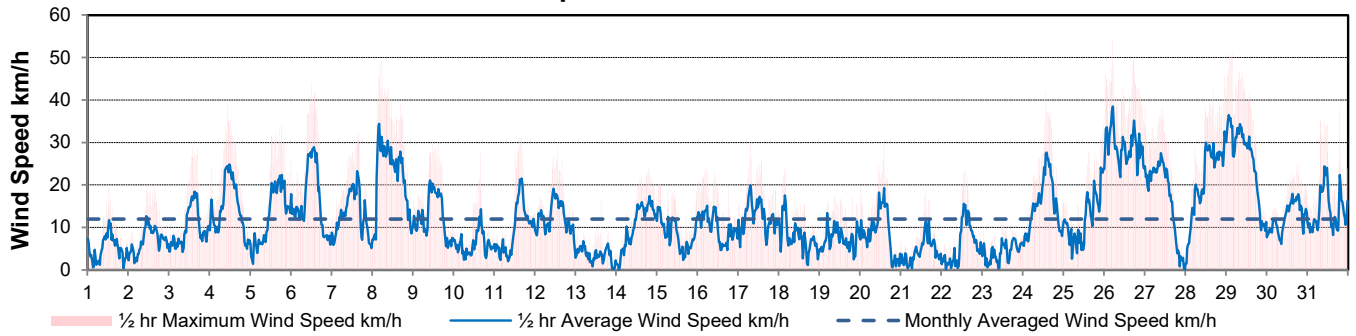
October 2019

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 <sup>2</sup>	MJ/m <sup>2</sup>
1	19.5	S	12:39	1.5	6.0	7.0	8.0	9.5	10.5	10.5	8.0	5.1	11.6	44.0	9.3	5.0
2	20.1	S	11:01	3.5	7.0	7.5	8.0	9.5	10.5	10.0	7.5	6.5	11.5	56.4	10.0	2.9
3	29.2	S	13:49	1.5	5.0	6.0	8.0	9.5	10.0	10.0	8.0	7.6	11.5	66.3	9.6	5.9
4	38.8	S	10:48	5.0	6.0	6.5	7.5	9.0	10.0	10.0	7.5	0.1	11.4	0.9	3.4	3.1
5	34.6	WNW	18:43	2.5	5.0	6.0	7.5	9.0	10.0	10.0	7.5	6.4	11.3	56.5	9.8	3.0
6	44.1	WNW	12:18	7.0	6.5	7.0	8.0	8.5	9.5	10.0	8.0	9.6	11.3	85.3	11.5	2.9
7	32.1	S	16:12	4.5	5.5	6.5	7.5	8.5	9.5	9.5	8.0	9.1	11.2	81.3	10.3	4.3
8	49.9	NNW	5:42	2.0	6.5	7.0	7.5	8.5	9.5	9.5	8.0	0.1	11.1	0.9	3.9	3.6
9	30.7	NNW	11:57	-4.0	4.0	5.0	6.5	8.5	9.5	9.5	8.0	9.3	11.1	84.2	11.2	2.7
10	27.5	W	16:05	-5.5	2.0	3.5	5.5	8.0	9.0	9.5	8.0	10.0	11.0	91.1	12.2	2.6
11	31.0	N	15:35	-6.0	1.5	2.5	5.0	7.5	9.0	9.5	8.0	10.4	10.9	95.2	12.1	2.2
12	29.0	N	13:30	-3.0	2.0	2.5	4.5	7.0	9.0	9.5	8.0	10.3	10.9	94.9	12.2	1.8
13	16.6	WNW	15:06	-4.5	1.0	2.0	4.0	6.5	8.5	9.0	8.0	9.4	10.8	87.2	11.1	3.0
14	24.2	N	19:33	0.0	2.5	3.0	4.0	6.0	8.0	9.0	8.0	0.0	10.7	0.0	4.1	3.8
15	20.5	NNW	1:36	1.0	3.0	3.5	4.5	6.0	8.0	9.0	8.0	0.0	10.6	0.0	3.8	3.5
16	24.2	SE	5:37	2.0	4.0	4.0	4.5	6.0	8.0	9.0	8.0	6.8	10.6	64.3	8.2	3.3
17	29.7	ESE	7:05	0.5	3.5	3.5	5.0	6.0	7.5	8.5	8.0	3.9	10.5	37.1	6.4	3.9
18	23.9	WNW	3:54	2.5	4.0	4.5	5.5	6.0	7.5	8.5	8.0	5.9	10.4	56.5	7.9	3.5
19	17.3	NW	19:46	2.0	3.5	4.0	5.0	6.0	7.5	8.5	8.0	8.8	10.4	84.9	9.5	1.5
20	29.4	W	14:16	-0.5	3.0	4.0	5.0	6.0	7.5	8.5	8.0	3.9	10.3	37.8	4.8	3.3
21	18.4	NNE	14:31	-1.0	3.0	3.5	4.5	6.0	7.5	8.5	8.0	6.0	10.2	58.6	7.6	2.7
22	23.1	ESE	14:02	-7.5	1.5	2.5	4.0	6.0	7.5	8.0	8.0	8.1	10.2	79.6	9.8	1.9
23	11.3	ENE	12:17	-4.0	1.0	1.5	3.5	5.5	7.0	8.0	8.0	2.6	10.1	25.7	4.6	4.0
24	41.8	S	13:57	-1.5	1.0	1.5	3.0	5.0	7.0	8.0	7.5	0.8	10.0	8.0	4.6	4.0
25	34.8	NNE	23:35	1.0	2.0	2.5	3.5	5.0	7.0	8.0	7.5	2.0	10.0	20.0	3.5	2.8
26	54.0	NW	5:07	-2.0	3.0	3.5	4.0	5.0	6.5	7.5	7.5	0.8	9.9	8.1	4.2	3.7
27	38.4	SSE	10:29	-7.0	1.5	2.0	3.5	5.0	6.5	7.5	7.5	0.0	9.8	0.0	3.8	3.5
28	45.6	NNW	23:11	-7.5	1.5	1.5	3.0	4.5	6.5	7.5	7.5	0.0	9.8	0.0	4.5	4.2
29	51.0	NW	3:38	-9.5	1.0	1.5	2.5	4.5	6.5	7.5	7.5	0.9	9.7	9.3	4.5	4.0
30	24.9	SSW	19:19	-13.0	0.5	1.0	2.0	4.0	6.0	7.5	7.5	5.3	9.7	54.9	6.7	4.2
31	37.7	N	19:03	0.0	0.5	0.5	1.5	3.5	6.0	7.0	7.5	0.0	9.6	0.0	9.7	7.1
Total												149.7	328.1	45.6	234.8	107.9
Mean				-1.3	3.2	3.8	5.0	6.6	8.1	8.6	7.8					
Extreme	54.0	NW	5:07													
Date	26															

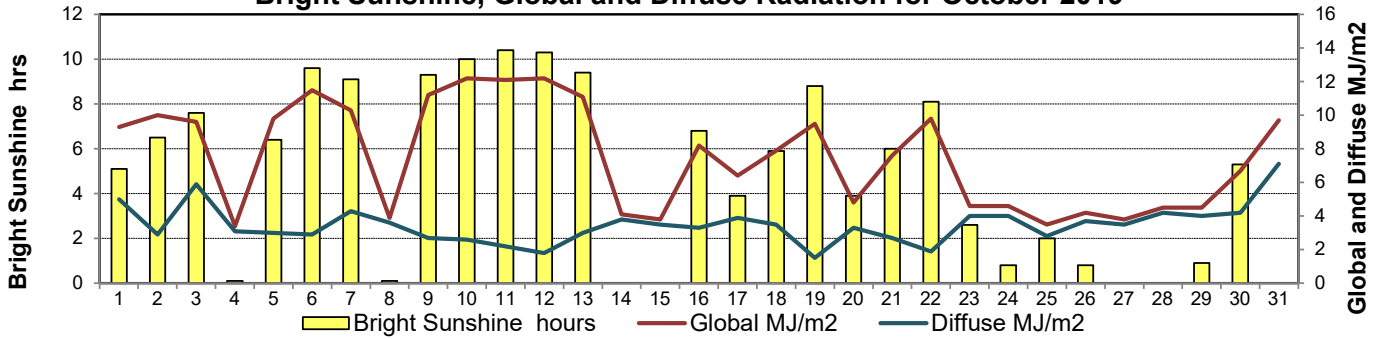
### GLOSSARY OF TERMS

<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 of 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 October 2019

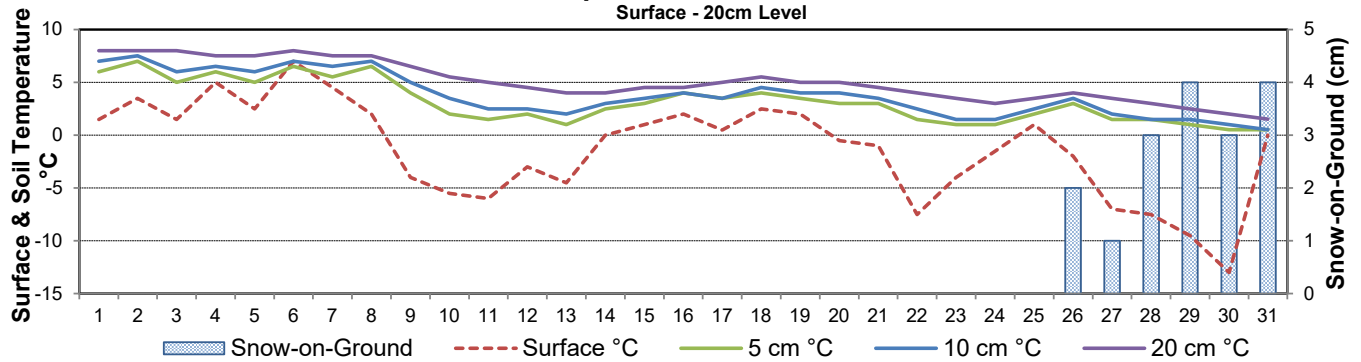


### Bright Sunshine, Global and Diffuse Radiation for October 2019



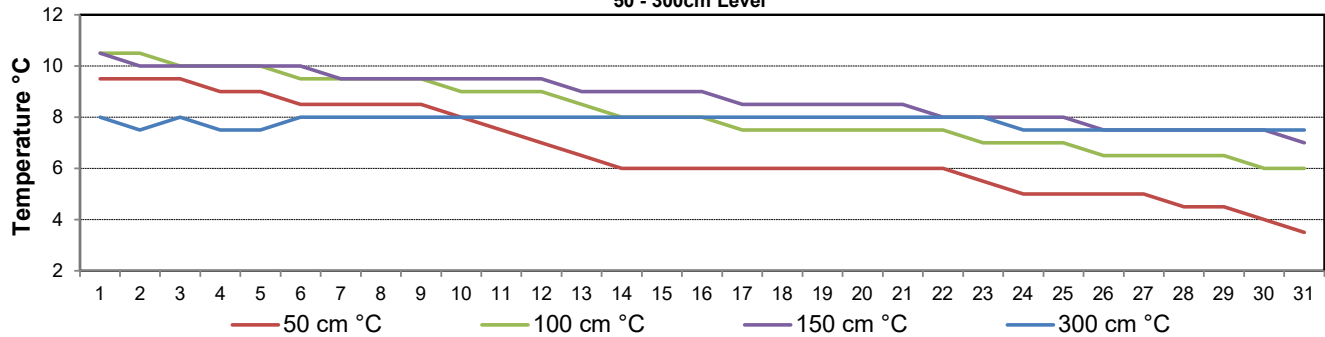
### Soil Temperatures for October 2019

Surface - 20cm Level



### Soil Temperatures for October 2019

50 - 300cm Level





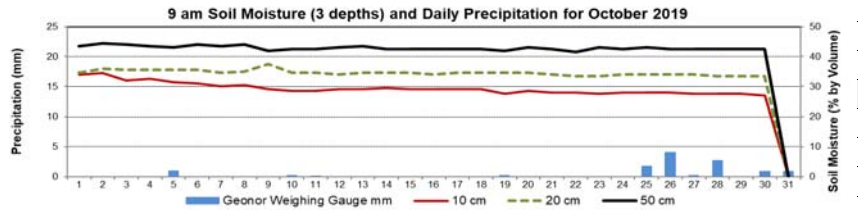
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**CONSERVATION LEARNING CENTRE**

Saskatchewan 53.03°N 105.77°W Estab. 2011

Preliminary

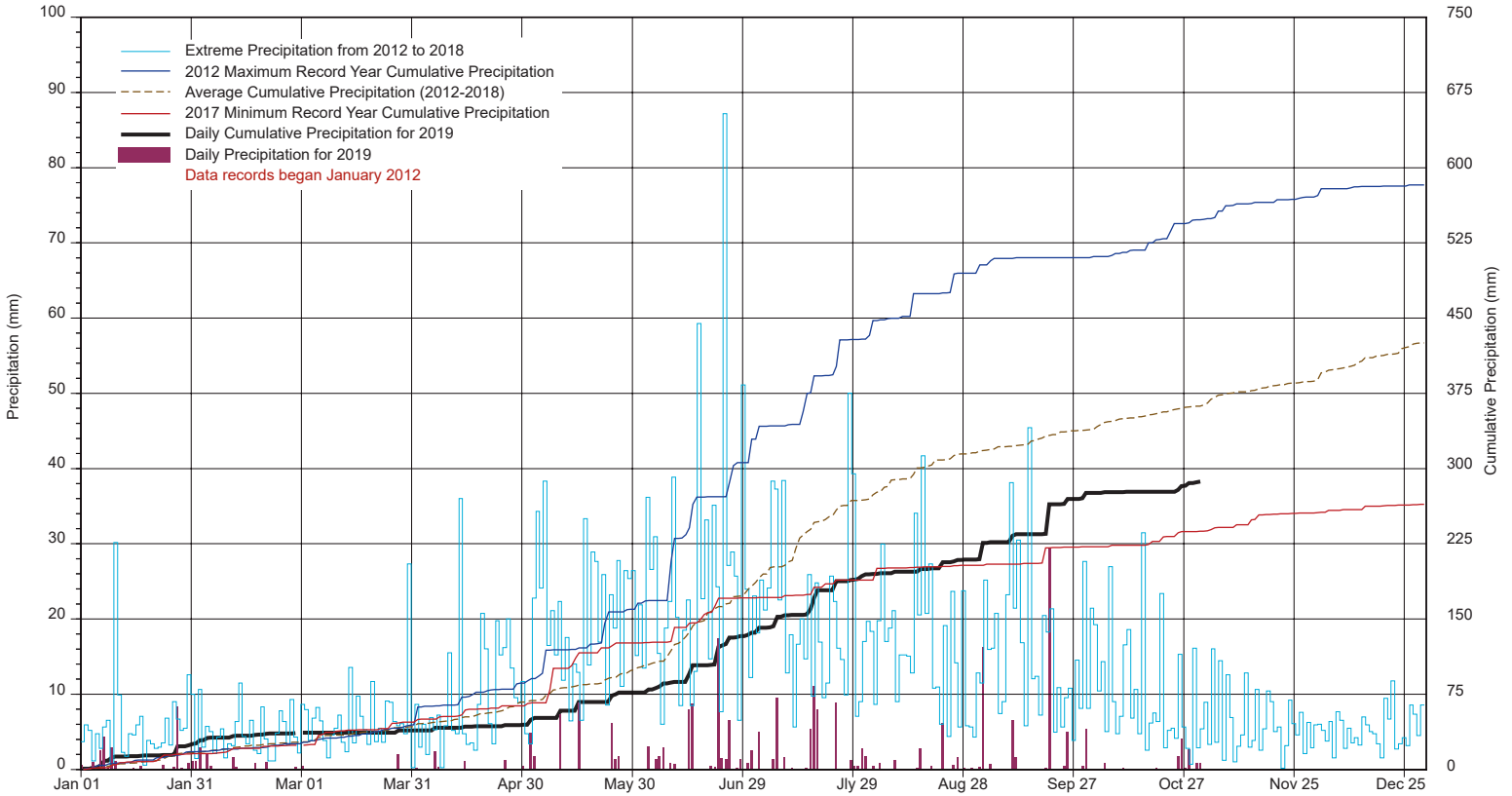
**October 2019**

Day	2 meter Wind Speed			Soil Moisture at 0900 hrs (rounded to the 0.5%)		
	Daily Average km/h	Max ½ hr Avg km/h	½ hr Extreme Max km/h	10 cm	20 cm	50 cm
1	4.0	9.1	15.8	34.0	34.5	43.5
2	5.0	9.9	16.4	34.5	36.0	44.5
3	7.0	13.7	24.3	32.0	35.5	44.0
4	10.0	17.2	26.8	32.5	35.5	43.5
5	9.0	16.1	25.6	31.5	35.5	43.0
6	12.0	20.7	32.1	31.0	35.5	44.0
7	10.0	17.6	25.2	30.0	34.5	43.5
8	16.0	25.0	39.8	30.5	35.0	44.0
9	10.0	16.0	27.7	29.0	37.5	42.0
10	5.0	11.4	25.4	28.5	34.5	42.5
11	7.0	16.2	25.4	28.5	34.5	42.5
12	9.0	14.9	23.1	29.0	34.0	43.0
13	3.0	5.7	12.6	29.0	34.5	43.5
14	8.0	13.1	20.6	29.5	34.5	42.5
15	7.0	11.1	15.4	29.0	34.5	42.5
16	7.0	10.5	17.6	29.0	34.0	42.5
17	9.0	14.4	21.6	29.0	34.5	42.5
18	6.0	13.1	18.7	29.0	34.5	42.5
19	6.0	9.6	13.9	27.5	34.5	42.0
20	7.0	14.9	23.3	28.5	34.5	43.0
21	4.0	9.6	15.4	28.0	34.0	42.5
22	4.0	10.9	18.3	28.0	33.5	41.5
23	4.0	7.0	11.2	27.5	33.5	43.0
24	12.0	21.1	32.9	28.0	34.0	42.5
25	9.0	17.6	26.2	28.0	34.0	43.0
26	21.0	27.1	36.9	28.0	34.0	42.5
27	13.0	20.2	29.8	27.5	34.0	42.5
28	16.0	24.5	35.2	27.5	33.5	42.5
29	19.0	27.4	39.1	27.5	33.5	42.5
30	10.0	14.8	20.6	27.0	33.5	42.5
31	11.0	6.0	28.0	0.0	0.0	0.0
Total						
Mean				28	33	41.5
Extreme	21.0	27.4	39.8	34.5	37.5	44.5
Date	4	2.5	7.5	8.5	6.5	8.5

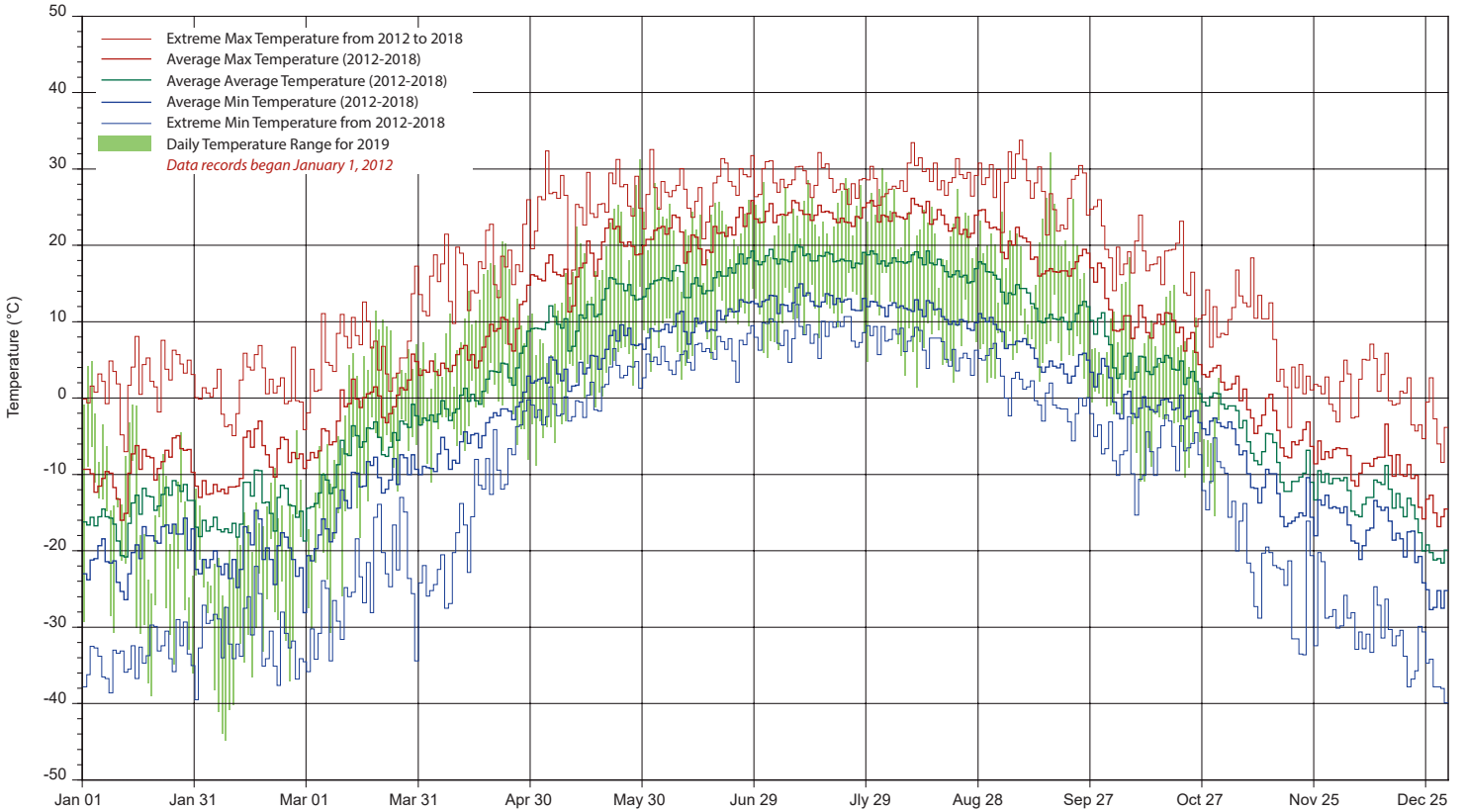




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# SRC's CLIMATE REFERENCE STATION at the Conservation Learning Centre 2019 PRECIPITATION AND AVERAGE



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