



SRC CLIMATE REFERENCE STATION DAILY DATA REPORT

CONSERVATION LEARNING CENTRE

Saskatchewan 53.03°N 105.77°W Estab. 2011

Preliminary

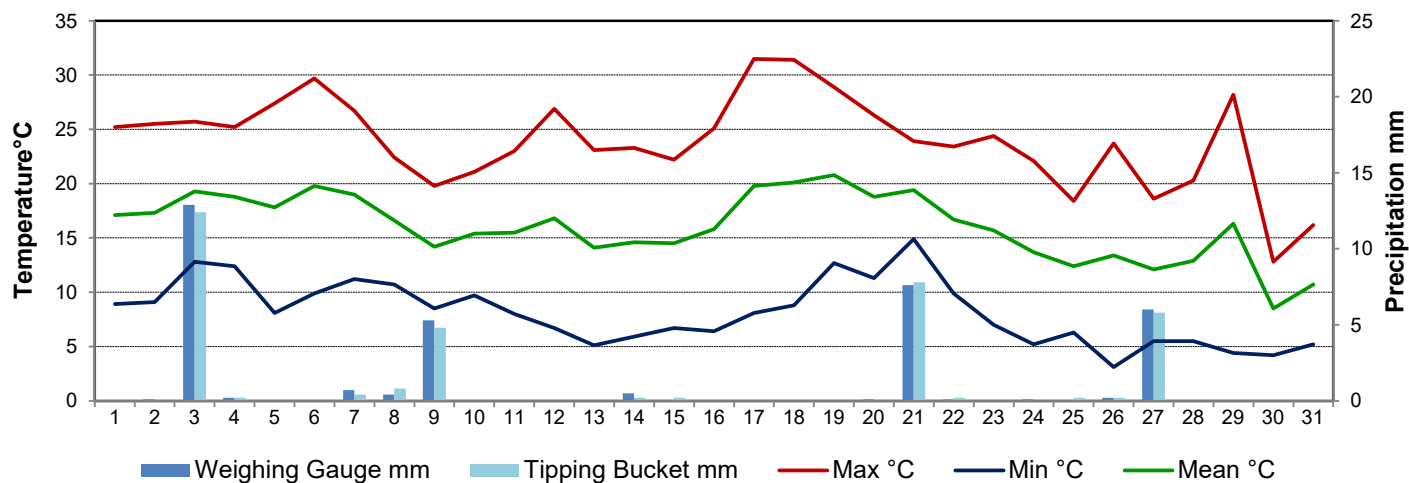
August 2020

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	25.2	8.9	17.1	12.1	0.9	0.0	0.0	0.0		100	41	1023	1021
2	25.5	9.1	17.3	12.3	0.7	0.0	0.1	0.0		100	44	1022	1018
3	25.7	12.8	19.3	14.3	0.0	1.3	12.9	12.4		85	42	1018	1011
4	25.2	12.4	18.8	13.8	0.0	0.8	0.2	0.2		90	43	1013	1010
5	27.4	8.1	17.8	12.8	0.2	0.0	0.0	0.0		98	40	1013	1009
6	29.7	9.9	19.8	14.8	0.0	1.8	0.0	0.0		97	42	1009	1003
7	26.7	11.2	19.0	14.0	0.0	1.0	0.7	0.4		91	44	1003	1001
8	22.4	10.7	16.6	11.6	1.4	0.0	0.4	0.8		94	41	1007	1000
9	19.8	8.5	14.2	9.2	3.8	0.0	5.3	4.8		98	48	1008	1005
10	21.1	9.7	15.4	10.4	2.6	0.0	0.0	0.0		74	46	1006	1004
11	23.0	8.0	15.5	10.5	2.5	0.0	0.0	0.0		92	35	1010	1006
12	26.9	6.7	16.8	11.8	1.2	0.0	0.0	0.0		93	43	1010	1002
13	23.1	5.1	14.1	9.1	3.9	0.0	0.0	0.0		100	36	1012	1010
14	23.3	5.9	14.6	9.6	3.4	0.0	0.5	0.2		100	37	1013	1010
15	22.2	6.7	14.5	9.5	3.5	0.0	0.0	0.2		94	41	1014	1011
16	25.1	6.4	15.8	10.8	2.2	0.0	0.0	0.0		99	44	1019	1015
17	31.5	8.1	19.8	14.8	0.0	1.8	0.0	0.0		99	33	1018	1014
18	31.4	8.8	20.1	15.1	0.0	2.1	0.0	0.0		100	31	1014	1009
19	28.9	12.7	20.8	15.8	0.0	2.8	0.0	0.0		100	46	1010	1008
20	26.3	11.3	18.8	13.8	0.0	0.8	0.1	0.0		100	65	1009	1006
21	23.9	14.9	19.4	14.4	0.0	1.4	7.6	7.8		98	69	1008	1005
22	23.4	9.9	16.7	11.7	1.3	0.0	0.1	0.2		98	68	1011	1006
23	24.4	7.0	15.7	10.7	2.3	0.0	0.0	0.0		100	38	1014	1011
24	22.1	5.2	13.7	8.7	4.3	0.0	0.1	0.0		100	47	1015	1012
25	18.4	6.3	12.4	7.4	5.6	0.0	0.0	0.2		100	75	1011	1007
26	23.7	3.1	13.4	8.4	4.6	0.0	0.2	0.2		100	38	1011	1009
27	18.6	5.5	12.1	7.1	5.9	0.0	6.0	5.8		100	63	1012	1010
28	20.3	5.5	12.9	7.9	5.1	0.0	0.0	0.0		100	51	1015	1011
29	28.2	4.4	16.3	11.3	1.7	0.0	0.0	0.0		100	30	1013	998
30	12.8	4.2	8.5	3.5	9.5	0.0	0.0	0.0		95	58	1004	1002
31	16.2	5.2	10.7	5.7	7.3	0.0	0.0	0.0		82	38	1005	998
Total				342.9	73.9	13.8	34.2	33.2					
Avg	23.9	8.1	16.1				299.3	Cumulative ppt					
Extreme	31.5	3.1					12.9	12.4		100	30	1023	998
Date	17	26					3	3		1	29	1	29

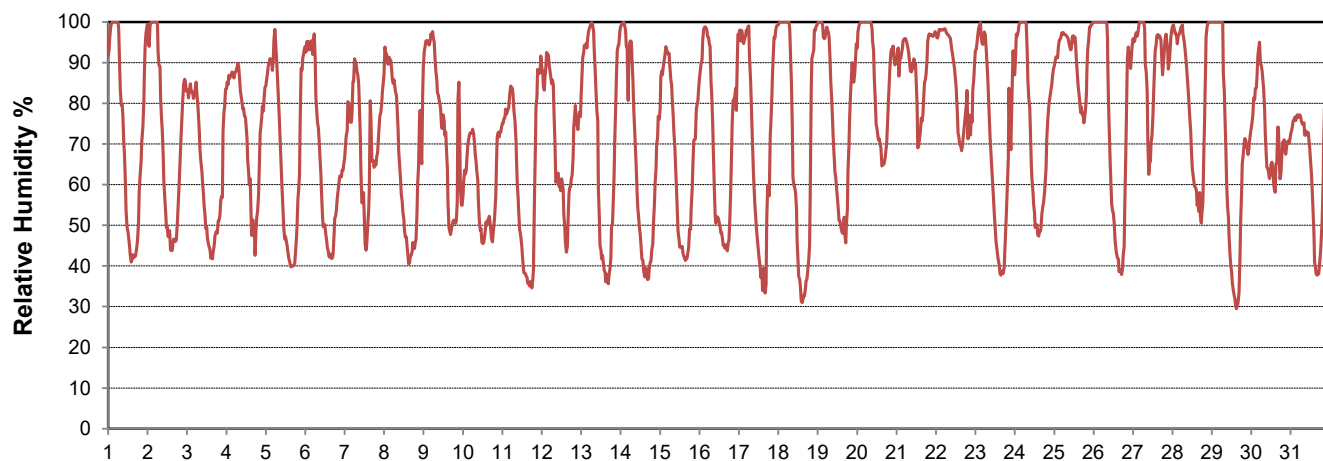
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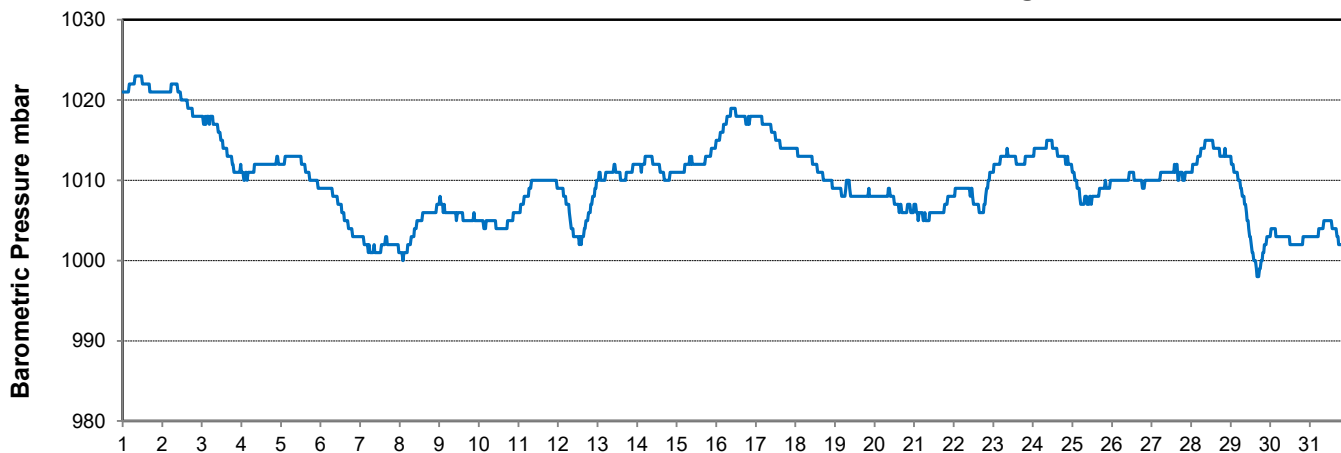
Temperature and Precipitation for August 2020



Relative Humidity for August 2020



Barometric Pressure Corrected to Sea Level for August 2020





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Preliminary

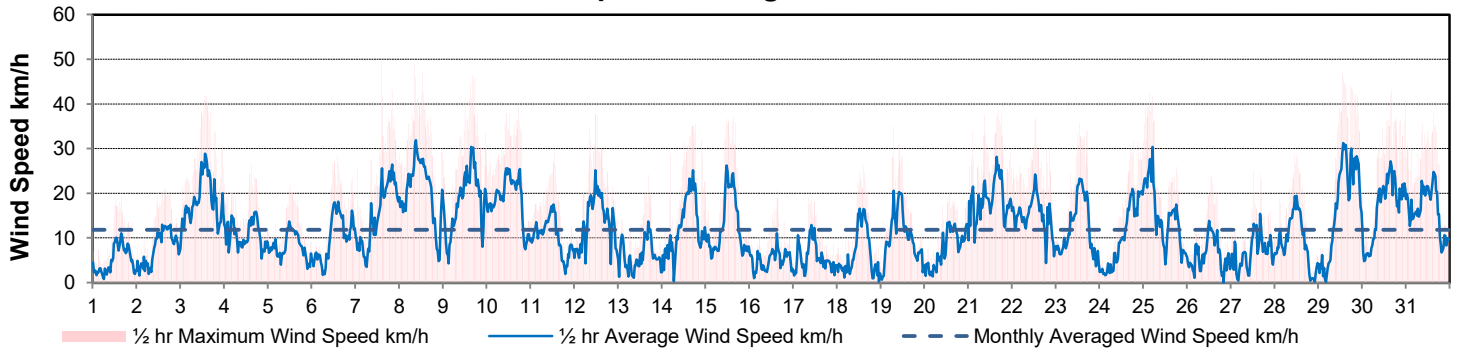
August 2020

Day	Wind Gust (10 meter)			Wind Speed (10 meter)	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	Diffuse
	km/h			km/h	°C	°C	°C	°C	°C	°C	°C	°C	hours	hours		MJ/m ²	MJ/m ²
1	19.4	E	15:44	5.2	18.5	17.5	18.5	18.0	16.0	12.5	10.0	5.5	14.8	15.6	95.1	17.2	2.6
2	21.0	SE	15:38	7.7	19.5	17.0	18.0	17.5	16.0	13.0	10.0	5.5	14.2	15.5	91.6	15.5	4.4
3	41.8	S	13:39	18.3	20.5	17.5	18.5	17.5	16.0	13.0	10.0	5.5	11.3	15.5	73.1	15.2	2.7
4	26.6	NNW	15:18	10.7	18.5	17.5	18.0	17.5	16.0	13.0	10.0	5.5	9.5	15.4	61.7	13.1	5.0
5	22.4	WSW	12:29	8.2	18.5	16.5	17.5	17.5	16.0	13.0	10.5	5.5	14.8	15.3	96.5	17.0	1.9
6	28.3	SSE	14:24	10.3	20.0	16.5	17.5	17.5	16.0	13.0	10.5	5.5	14.3	15.3	93.6	16.5	2.3
7	49.7	SW	14:25	15.3	19.0	18.0	18.5	18.0	16.0	13.0	10.5	5.5	6.1	15.2	40.1	10.7	5.2
8	49.0	WNW	8:45	20.8	16.0	17.0	17.5	17.0	16.0	13.0	10.5	5.5	11.8	15.2	77.8	15.7	2.8
9	46.5	NW	16:06	18.3	13.5	15.5	16.5	16.5	15.5	13.0	10.5	5.5	6.2	15.1	41.1	10.3	5.7
10	39.1	NW	17:52	18.7	16.5	15.0	16.0	16.0	15.5	13.5	11.0	6.0	13.7	15.0	91.1	15.7	3.4
11	29.7	W	13:03	10.3	15.5	14.5	15.5	15.5	15.0	13.0	11.0	6.0	13.8	15.0	92.1	16.2	2.5
12	37.8	S	11:46	13.4	18.0	15.0	15.5	15.5	15.0	13.0	11.0	6.0	6.6	14.9	44.3	10.6	5.3
13	24.2	WSW	16:34	6.0	13.5	15.0	15.5	16.0	15.0	13.0	11.0	6.0	11.0	14.9	74.1	14.5	2.9
14	35.5	W	18:30	12.6	17.0	15.0	16.0	15.5	15.0	13.0	11.0	6.0	12.1	14.8	81.8	14.9	3.1
15	36.9	NW	15:11	12.8	15.0	14.5	15.5	15.5	15.0	13.0	11.0	6.0	13.4	14.7	91.0	15.3	3.0
16	20.6	WNW	15:00	4.9	16.0	14.5	15.0	15.5	15.0	13.0	11.0	6.0	13.5	14.7	92.1	15.4	1.7
17	19.1	SW	8:55	5.6	20.0	15.0	15.5	15.5	15.0	13.0	11.0	6.0	11.3	14.6	77.4	13.7	3.4
18	26.1	WNW	14:50	6.6	19.5	16.0	16.5	16.5	15.0	13.0	11.0	6.5	13.8	14.5	95.0	15.2	1.8
19	35.0	NNW	7:08	10.1	20.5	17.0	17.5	16.5	15.0	13.0	11.0	6.5	12.4	14.5	85.7	14.2	2.9
20	20.3	ENE	13:39	7.9	17.5	17.0	17.5	17.0	15.5	13.0	11.0	6.5	7.5	14.4	52.1	10.3	5.2
21	38.7	E	16:57	18.2	18.5	18.0	18.0	17.0	15.5	13.0	11.0	6.0	4.3	14.3	30.0	8.8	4.3
22	36.9	ESE	13:03	14.8	17.0	17.0	17.0	16.5	14.5	12.5	10.5	5.5	2.9	14.3	20.3	7.1	4.6
23	35.8	W	13:12	12.2	16.5	15.0	16.0	16.5	15.5	13.0	11.0	6.5	12.4	14.2	87.3	14.5	2.0
24	31.7	E	21:27	10.4	14.5	14.0	15.0	16.0	15.5	13.5	11.0	6.5	13.3	14.1	94.1	13.4	3.2
25	42.4	E	3:51	15.0	13.5	15.5	15.5	15.5	15.0	13.0	11.0	6.0	3.2	14.1	22.7	4.9	3.5
26	23.9	WNW	13:18	6.1	13.0	13.0	14.0	15.0	15.0	13.5	11.5	6.5	12.2	14.0	87.1	14.1	3.0
27	25.1	NW	12:52	7.0	14.5	14.0	15.0	15.0	15.0	13.0	11.5	7.0	3.7	13.9	26.5	4.3	2.8
28	28.5	NW	11:08	9.4	12.5	12.5	13.5	14.0	14.5	13.0	11.5	6.5	11.8	13.9	85.1	12.5	2.5
29	47.1	SSE	13:21	16.8	15.5	12.5	13.5	14.0	14.5	13.0	11.5	7.0	10.1	13.8	73.1	11.7	3.7
30	43.2	NW	16:20	16.8	11.0	13.0	13.5	14.5	14.0	13.0	11.5	7.0	4.5	13.7	32.8	7.3	4.3
31	37.9	WNW	15:27	16.4	9.0	12.0	12.5	13.5	14.0	13.0	11.5	7.0	6.4	13.7	46.8	8.7	3.2
Total													316.9	454.1	69.8	394.5	104.9
Mean				11.8	16.4	15.4	16.1	16.1	15.2	13.0	10.9	6.1					
Extreme	49.7	SW	14:25														
Date	7																

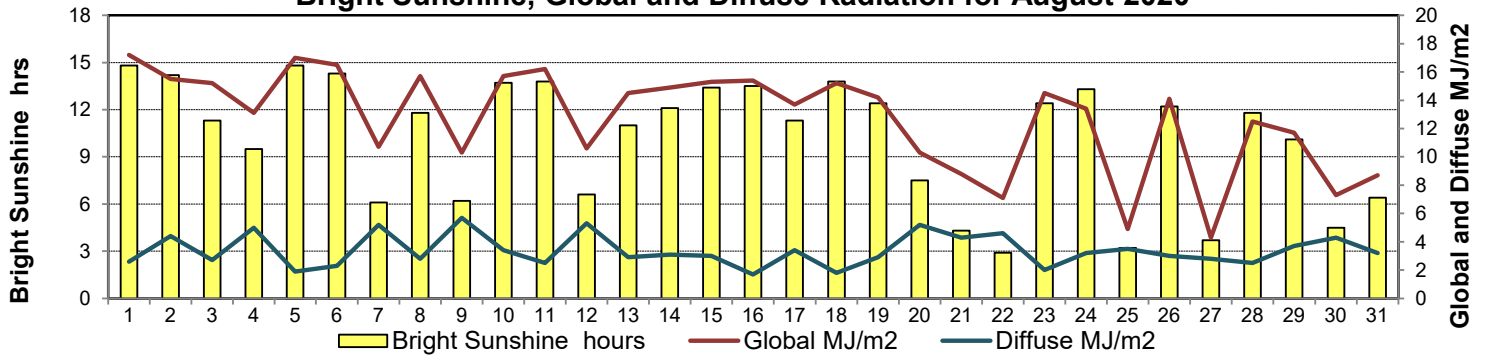
GLOSSARY OF TERMS

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	Diffuse	is radiation reaching the earth's surface after having been scattered from the direct solar beam
Heating	(18°C-Tm); if Tm ≥ 18°C then HDD = 0	Global	is the sum of the direct solar and diffuse radiation
Cooling	(Tm-18°C); if Tm ≤ 18°C then CDD = 0	Relative Humidity	The ratio of the air's water vapour content to its water vapour capacity which changes with temperature.
T	Trace of Precipitation	Air Pressure	The force exerted by the weight of a column of air above a given point
SOG	Depth of snow-on-the-ground	Wind Gust	The daily highest instantaneous value recorded irrespective of direction and/or duration
Red Cell	no data available		
Red Number	manual calculation		

Wind Speed for August 2020

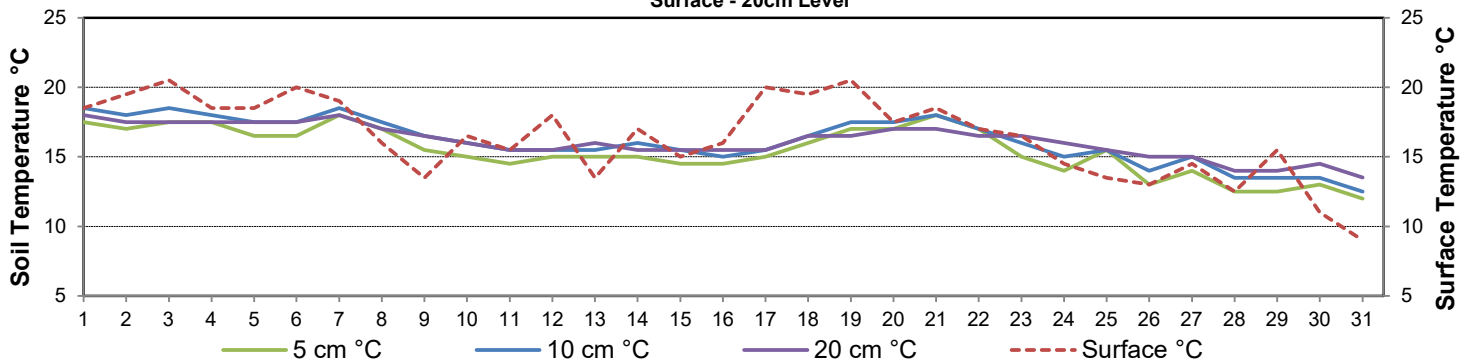


Bright Sunshine, Global and Diffuse Radiation for August 2020



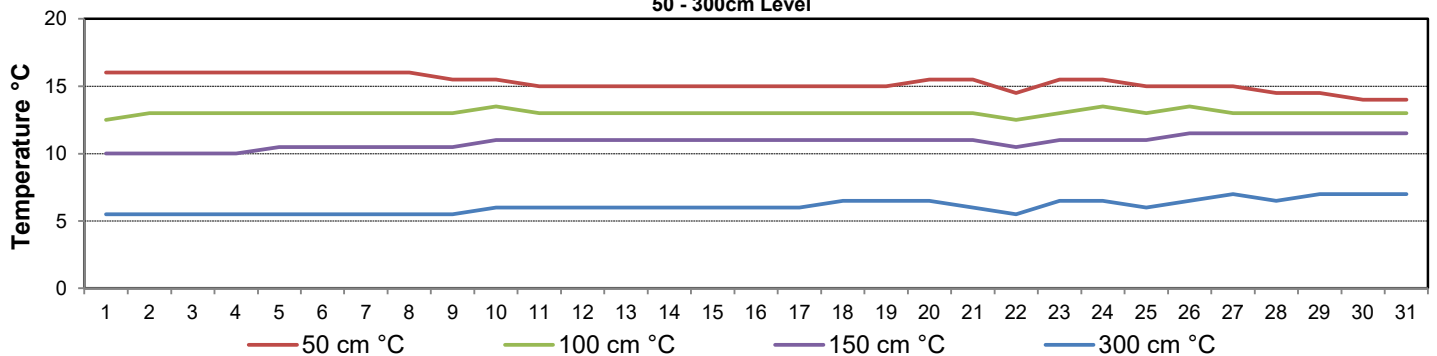
Soil Temperatures for August 2020

Surface - 20cm Level



Soil Temperatures for August 2020

50 - 300cm Level





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Saskatchewan 53.03°N 105.77°W Estab. 2011

August 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	4.0	9.3	15.8	23.5	35.0	45.5							
2	5.0	9.1	16.2	23.5	35.5	46.0							
3	12.0	18.5	31.0	21.5	35.0	44.5							
4	8.0	12.1	20.4	21.5	38.0	44.5							
5	6.0	10.7	17.4	22.0	37.5	44.5							
6	6.0	12.1	19.9	21.5	36.0	46.0							
7	11.0	19.9	38.7	22.0	34.5	46.0							
8	15.0	23.1	37.5	21.5	35.5	44.5							
9	13.0	22.2	35.4	23.5	34.5	44.5							
10	14.0	18.9	30.4	22.0	33.5	46.5							
11	8.0	13.3	20.2	21.5	33.5	45.0							
12	9.0	15.8	26.2	22.0	33.0	45.5							
13	4.0	11.1	21.2	20.5	33.0	44.0							
14	9.0	17.7	26.8	21.0	31.5	44.0							
15	9.0	18.9	26.0	20.5	32.0	45.0							
16	3.0	8.7	14.1	20.5	30.5	46.0							
17	3.0	10.1	16.2	20.5	31.0	45.0							
18	4.0	12.4	19.5	20.0	30.0	44.0							
19	7.0	15.5	24.1	19.5	29.5	44.0							
20	6.0	11.2	16.6	21.0	29.0	45.5							
21	14.0	21.0	31.0	20.5	28.5	45.5							
22	11.0	16.6	27.5	20.5	29.5	45.5							
23	8.0	16.6	29.1	20.5	28.0	45.5							
24	8.0	15.3	23.3	19.0	28.5	46.0							
25	11.0	19.7	32.5	20.5	28.5	45.0							
26	4.0	10.4	18.3	20.0	28.0	44.5							
27	4.0	9.4	17.9	19.0	28.0	44.5							
28	6.0	13.8	21.8	19.5	27.0	45.0							
29	11.0	20.5	34.6	19.0	27.5	45.0							
30	12.0	18.4	31.4	19.5	27.0	45.5							
31	11.0	17.0	26.0	20.0	27.5	44.5							
Total													
Mean				21	32	45.1							
Extreme	15.0	23.1	38.7	23.5	38	46.5							
Date	17.5	17.5	18	18	18	16							

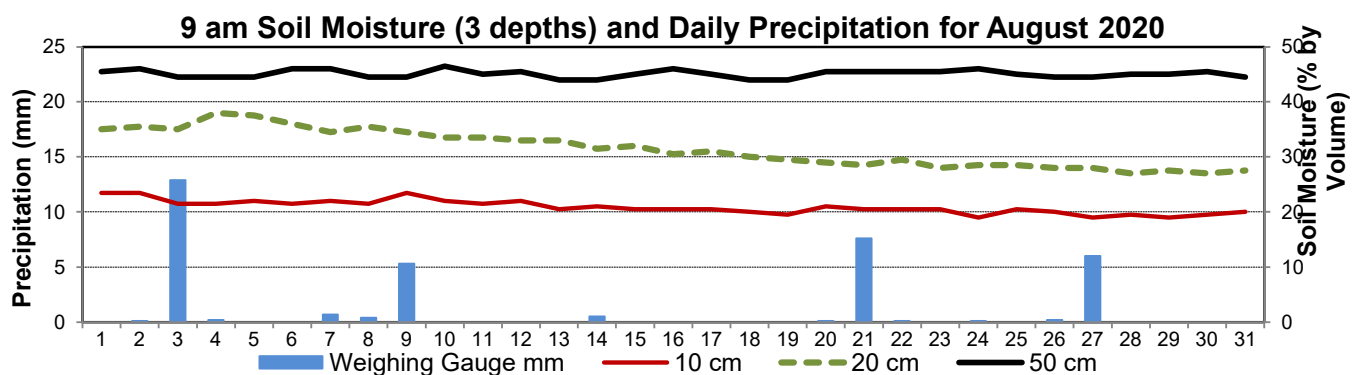
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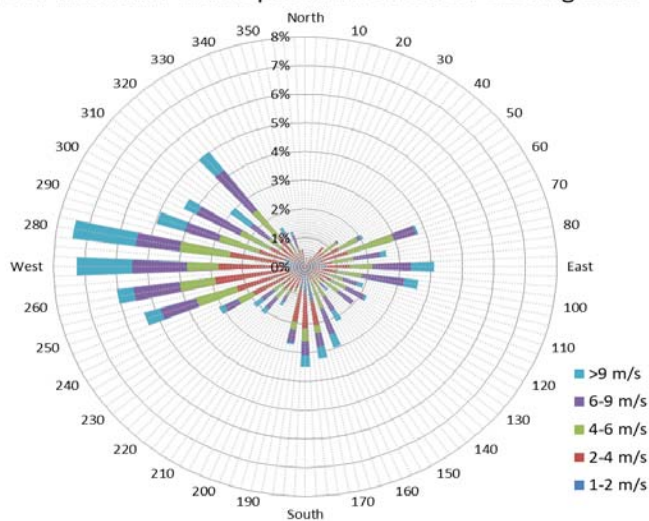
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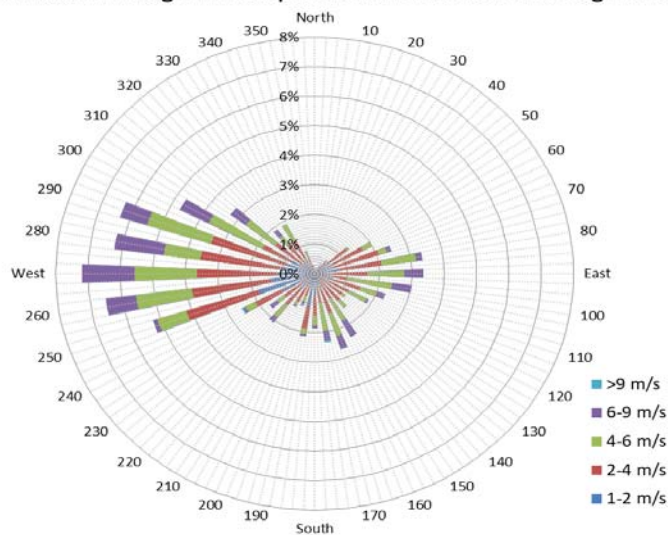




1/2 hr Maximum Wind Speed and Direction CLC Aug 2020

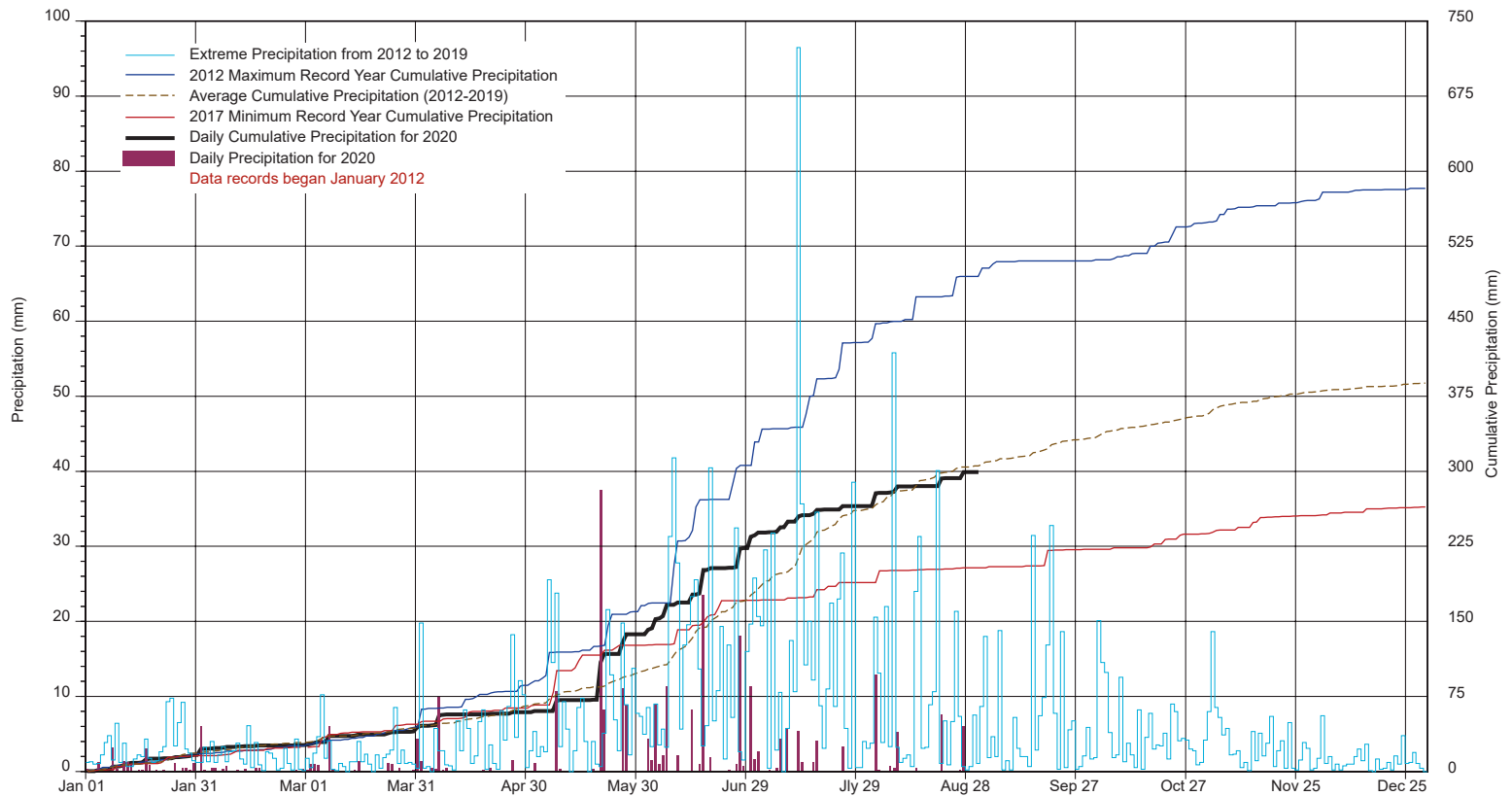


10 minute Average Wind Speed and Direction CLC Aug 2020

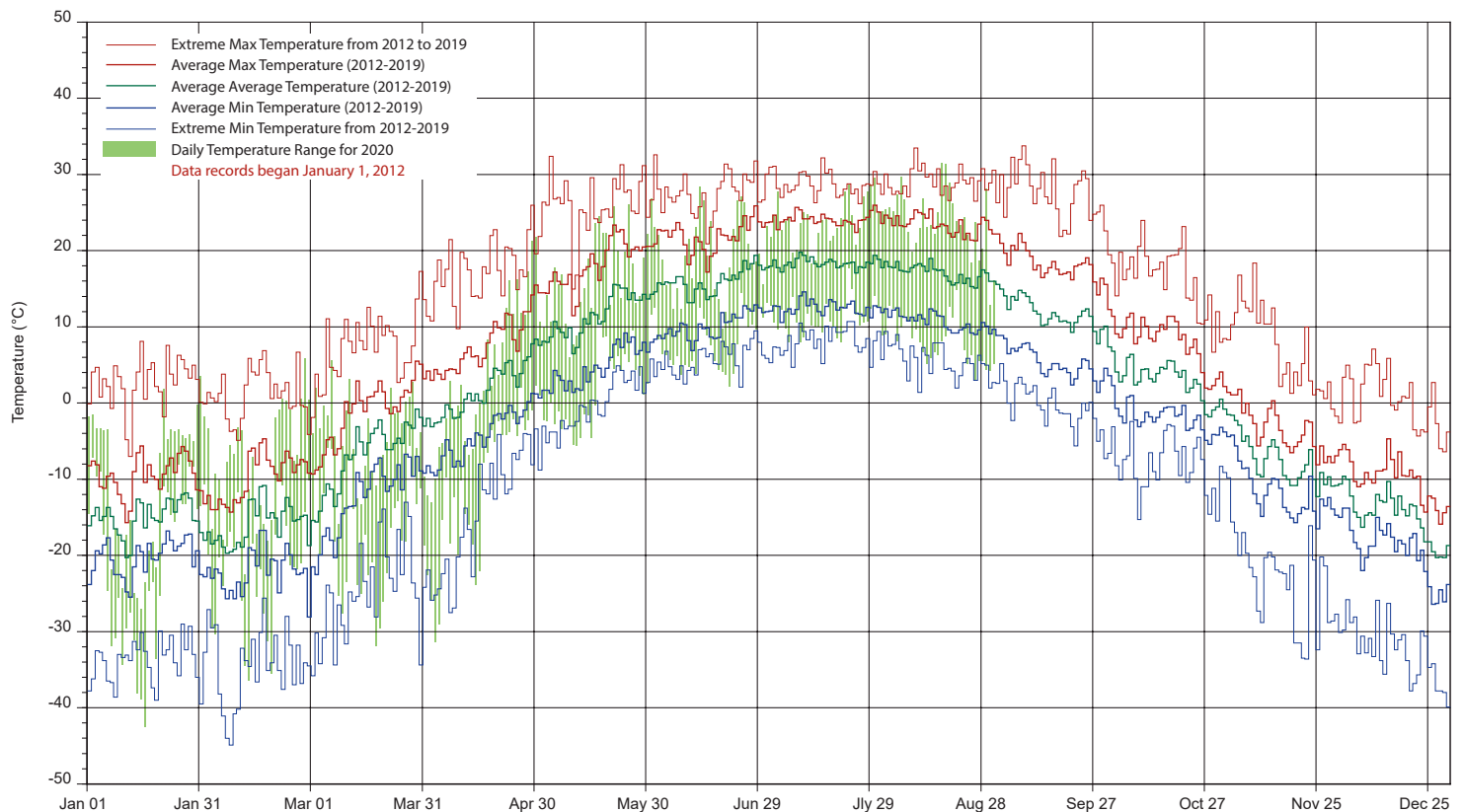


SRC's CLIMATE REFERENCE STATION at the Conservation Learning Centre

2020 PRECIPITATION AND AVERAGE



2020 TEMPERATURES AND AVERAGES



SRC proudly recongnizes the following CRS supporters:



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