



SRC CLIMATE REFERENCE STATION DAILY DATA REPORT

CONSERVATION LEARNING CENTRE

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

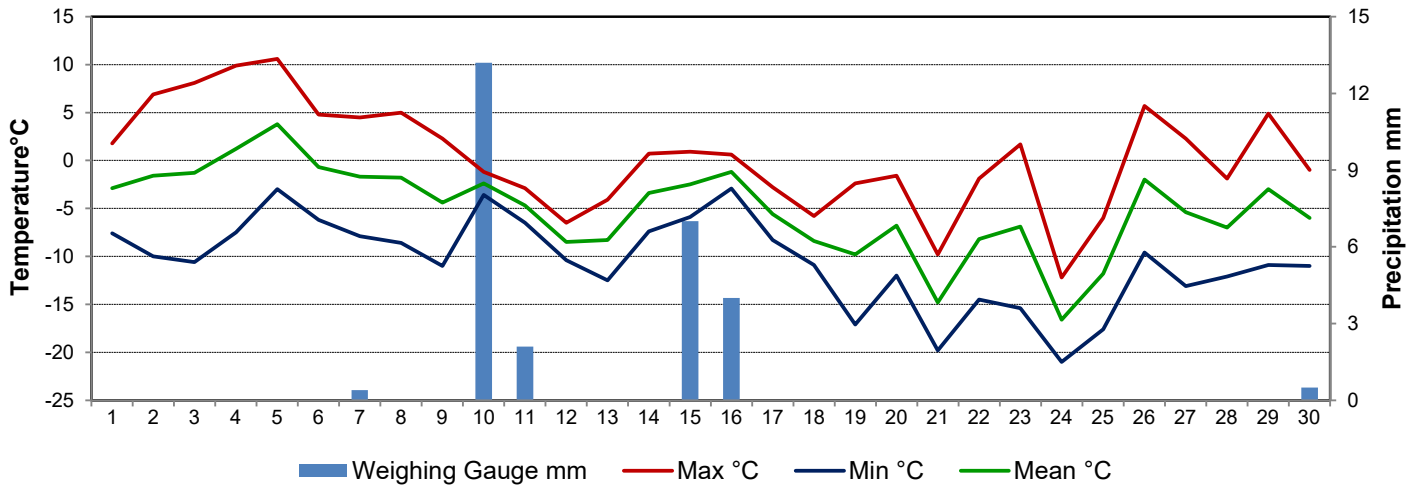
Preliminary **November 2021**

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	1.8	-7.6	-2.9	0.0	20.9	0.0	0.0		0	92	59	1028	1024
2	6.9	-10.0	-1.6	0.0	19.6	0.0	0.0		0	96	38	1024	1018
3	8.1	-10.6	-1.3	0.0	19.3	0.0	0.0		0	97	49	1018	1011
4	9.9	-7.5	1.2	0.0	16.8	0.0	0.0		0	97	60	1011	999
5	10.6	-3.0	3.8	0.0	14.2	0.0	0.0		0	100	64	1003	997
6	4.8	-6.2	-0.7	0.0	18.7	0.0	0.0		0	100	95	1007	1003
7	4.5	-7.9	-1.7	0.0	19.7	0.0	0.4		0	100	63	1009	1003
8	5.0	-8.6	-1.8	0.0	19.8	0.0	0.0		0	95	56	1016	1009
9	2.3	-11.0	-4.4	0.0	22.4	0.0	0.0		0	96	72	1018	1010
10	-1.2	-3.6	-2.4	0.0	20.4	0.0	13.2		1	98	81	1014	1008
11	-2.9	-6.5	-4.7	0.0	22.7	0.0	2.1		15	96	81	1028	1014
12	-6.5	-10.4	-8.5	0.0	26.5	0.0	0.0		14	96	85	1028	1010
13	-4.1	-12.5	-8.3	0.0	26.3	0.0	0.0		13	96	82	1011	1008
14	0.7	-7.4	-3.4	0.0	21.4	0.0	0.0		12	98	86	1011	1006
15	0.9	-5.9	-2.5	0.0	20.5	0.0	7.0		11	100	88	1009	991
16	0.6	-2.9	-1.2	0.0	19.2	0.0	4.0		17	100	93	1003	981
17	-2.8	-8.3	-5.6	0.0	23.6	0.0	0.0		15	94	86	1023	1003
18	-5.8	-10.9	-8.4	0.0	26.4	0.0	0.0		15	96	81	1023	1006
19	-2.4	-17.1	-9.8	0.0	27.8	0.0	0.0		15	96	81	1010	1006
20	-1.6	-12.0	-6.8	0.0	24.8	0.0	0.0		15	95	75	1024	1006
21	-9.8	-19.8	-14.8	0.0	32.8	0.0	0.0		15	89	75	1027	1014
22	-1.9	-14.5	-8.2	0.0	26.2	0.0	0.0		15	96	89	1014	995
23	1.7	-15.4	-6.9	0.0	24.9	0.0	0.0		14	97	72	1016	996
24	-12.2	-21.0	-16.6	0.0	34.6	0.0	0.0		14	88	76	1026	1016
25	-6.0	-17.6	-11.8	0.0	29.8	0.0	0.0		15	96	82	1021	1002
26	5.7	-9.6	-2.0	0.0	20.0	0.0	0.0		15	97	60	1009	1001
27	2.3	-13.1	-5.4	0.0	23.4	0.0	0.0		15	90	55	1018	1010
28	-1.9	-12.1	-7.0	0.0	25.0	0.0	0.0		15	97	71	1016	1004
29	4.9	-10.9	-3.0	0.0	21.0	0.0	0.0		15	97	63	1017	1004
30	-1.0	-11.0	-6.0	0.0	24.0	0.0	0.5		15	96	74	1017	997
Total				0.0	692.7	0.0	27.2						
Avg	0.4	-10.5	-5.1				269.4	Cumulative ppt					
Extreme	10.6	-21.0					13.2		17	100	38	1028	981
Date	5	24					10		16	5	2	1	16

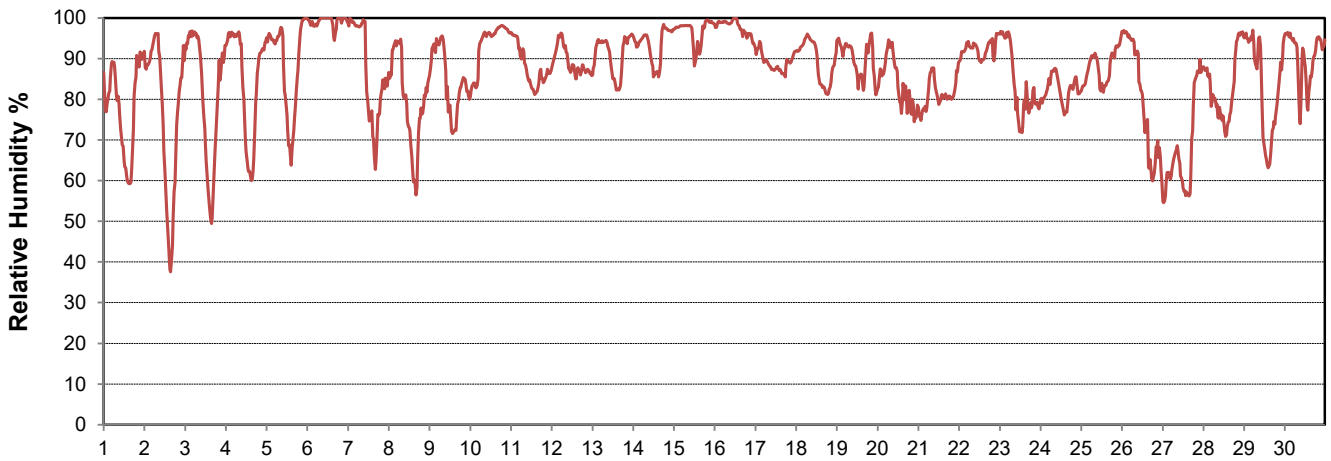
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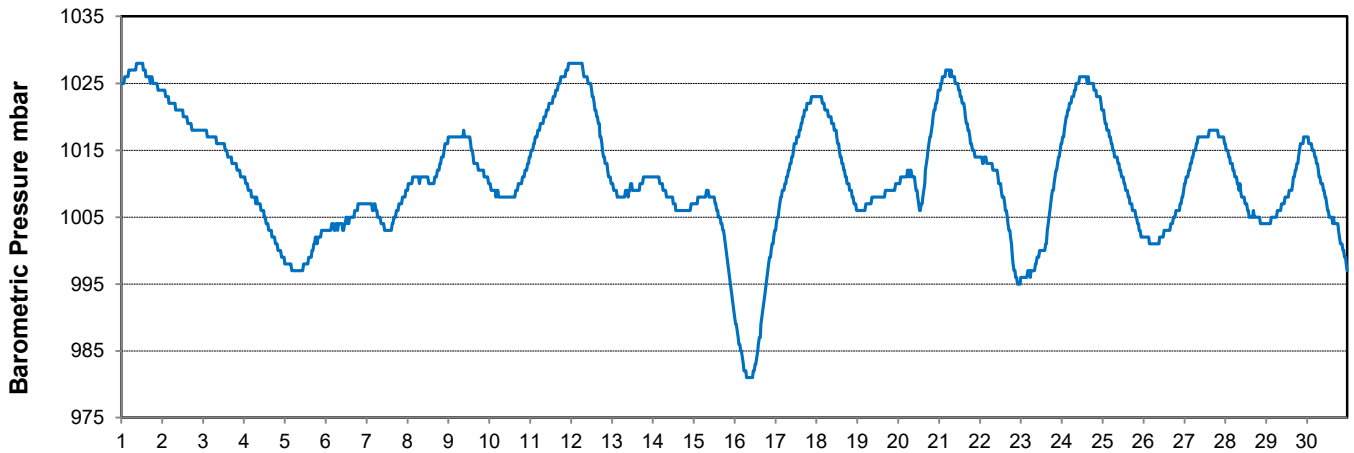
Temperature and Precipitation for November 2021



Relative Humidity for November 2021



Barometric Pressure Corrected to Sea Level for November 2021





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

Preliminary

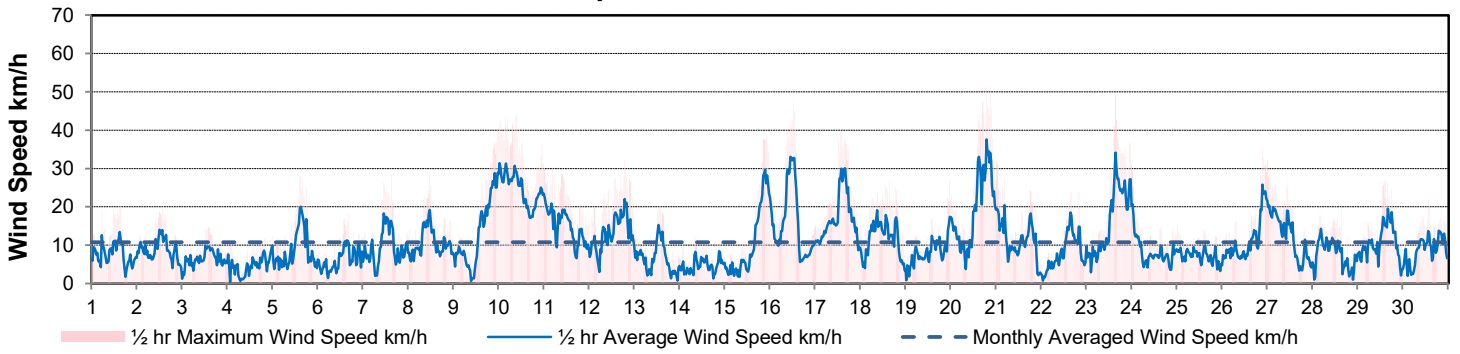
November 2021

Day	Wind Gust (10 meter)			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 ²	MJ/m ²
1	20.8	SW	15:02	7.6	-2.5	1.5	2.0	3.5	5.5	7.0	8.0	8.0	6.6	9.5	69.5	6.5	2.3
2	20.1	SSW	13:44	8.7	-8.5	0.5	1.5	3.0	5.5	7.0	8.0	8.0	9.0	9.4	95.4	8.1	1.9
3	14.7	SSW	14:21	6.4	-9.0	-0.5	0.5	2.5	5.0	7.0	8.0	8.0	8.4	9.4	89.7	8.1	1.2
4	11.9	ENE	20:02	4.6	-6.0	-1.0	0.0	2.0	4.5	6.5	8.0	8.0	8.2	9.3	88.2	6.7	1.3
5	28.1	WNW	15:28	8.7	-1.5	0.0	0.5	2.0	4.0	6.5	7.5	8.0	5.7	9.2	61.7	5.8	2.0
6	18.2	SW	16:31	6.3	-0.5	0.5	0.5	2.0	4.0	6.0	7.5	8.0	1.5	9.2	16.3	2.0	1.7
7	28.4	W	15:03	9.5	-5.0	0.0	0.5	2.0	4.0	6.0	7.5	8.0	6.5	9.1	71.3	5.5	1.5
8	28.9	SW	11:56	10.7	-5.5	-0.5	0.0	1.5	4.0	6.0	7.5	8.0	4.2	9.1	46.4	4.0	2.7
9	40.1	E	23:42	12.7	-11.5	-1.5	-0.5	1.0	3.5	5.5	7.5	8.0	7.7	9.0	85.6	6.4	2.0
10	44.1	E	9:54	24.8	-2.5	-0.5	-0.5	1.0	3.5	5.5	7.0	8.0	0.0	8.9	0.0	1.9	1.8
11	31.4	NE	0:12	14.8	-3.0	-0.5	0.0	1.0	3.5	5.5	7.0	7.5	0.0	8.9	0.0	3.7	3.6
12	32.1	SE	19:23	13.2	-4.5	0.0	0.5	1.0	3.0	5.5	7.0	8.0	0.0	8.8	0.0	3.3	3.2
13	20.2	SW	14:18	6.6	-5.5	0.0	0.5	1.5	3.0	5.0	7.0	8.0	0.4	8.8	4.6	3.5	3.3
14	12.3	SSW	8:27	4.6	-2.0	0.0	0.5	1.5	3.0	5.0	6.5	8.0	0.0	8.7	0.0	3.2	3.1
15	37.9	E	22:47	10.3	-3.5	0.0	0.5	1.5	3.0	5.0	6.5	8.0	0.2	8.7	2.3	3.0	2.7
16	47.1	NNE	12:38	15.9	0.0	0.0	0.5	1.0	3.0	4.5	6.0	7.0	0.0	8.6	0.0	1.1	1.0
17	39.7	NW	13:36	17.1	-7.5	0.5	0.5	1.5	3.0	4.5	6.0	7.0	0.1	8.6	1.2	3.1	3.0
18	26.6	SSE	15:58	11.7	-8.5	0.5	1.0	1.5	3.0	4.5	6.0	7.5	2.0	8.5	23.5	3.8	3.3
19	27.0	W	23:43	8.2	-11.0	0.5	1.0	1.5	3.0	4.5	6.0	7.5	7.6	8.5	89.9	6.0	1.5
20	51.4	NW	19:19	19.3	-8.5	0.5	0.5	1.5	3.0	4.5	6.0	7.5	1.8	8.4	21.4	3.6	2.5
21	31.9	NW	0:34	11.4	-16.5	0.5	0.5	1.5	3.0	4.5	6.0	7.5	2.1	8.4	25.1	3.1	2.5
22	24.0	E	15:58	8.1	-9.0	0.0	0.5	1.5	2.5	4.5	6.0	7.5	0.4	8.3	4.8	2.6	2.4
23	49.3	NW	15:52	16.4	-5.5	0.0	0.0	1.0	2.5	4.5	6.0	7.5	4.4	8.3	53.3	4.3	1.7
24	31.0	N	0:30	8.4	-15.0	0.0	0.0	1.0	2.5	4.5	6.0	7.5	1.1	8.2	13.4	3.3	2.8
25	14.9	SSE	0:30	7.1	-12.0	-0.5	-0.5	1.0	2.5	4.5	6.0	7.5	3.1	8.2	37.9	3.3	2.7
26	35.0	NW	21:53	11.0	-4.5	-1.0	-0.5	0.5	2.0	4.0	5.5	7.5	1.4	8.1	17.2	3.3	2.8
27	32.3	WNW	0:04	12.4	-7.0	-0.5	0.0	0.5	2.0	4.0	5.5	7.5	7.5	8.1	92.8	4.4	0.9
28	19.4	SE	15:34	7.6	-7.5	-0.5	-0.5	0.5	2.0	4.0	5.5	7.5	0.0	8.0	0.0	2.2	2.2
29	27.3	WNW	15:04	10.6	-7.5	-0.5	-0.5	0.5	2.0	4.0	5.5	7.0	7.0	8.0	87.5	5.0	1.0
30	21.7	SE	13:54	8.8	-5.5	-0.5	-0.5	0.5	2.0	4.0	5.5	7.0	2.3	8.0	28.9	2.9	1.7
Total													99.2	260	38.2	123.7	66.3
Mean				10.8	-6.6	-0.1	0.3	1.4	3.2	5.1	6.6	7.7					
Extreme	51.4	NW	19:19														
Date	20																

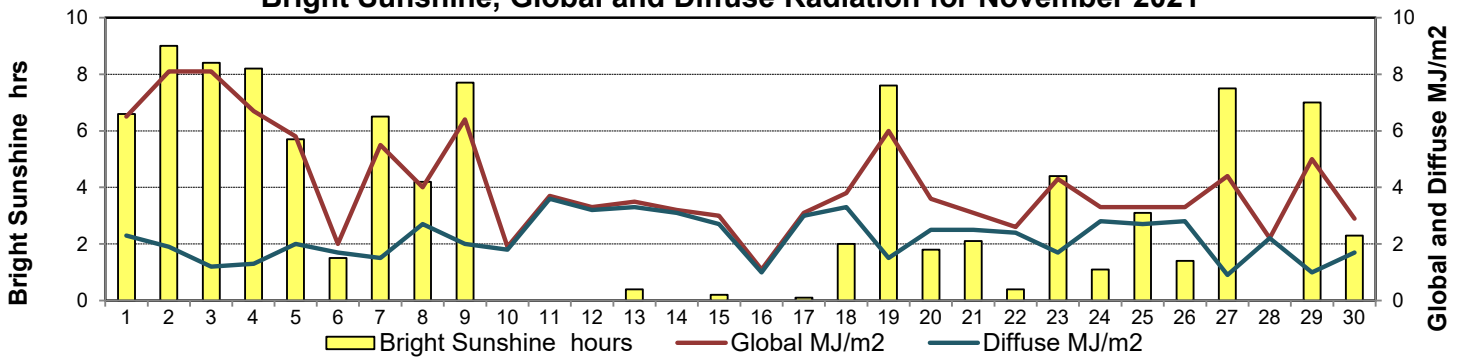
GLOSSARY OF TERMS

Degree-days	Radiation
T _m 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 _m -5°C); if T _m ≤ 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-T _m); if T _m ≥ 18°C then HDD = 0	Global is the sum of the direct solar and diffuse radiation
Cooling (T _m -18°C); if T _m ≤ 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 November 2021

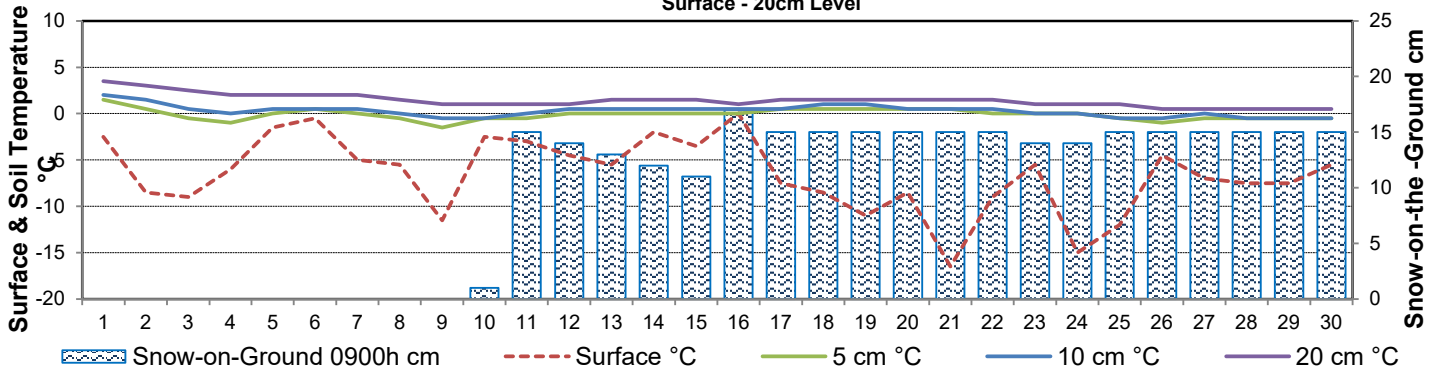


Bright Sunshine, Global and Diffuse Radiation for November 2021



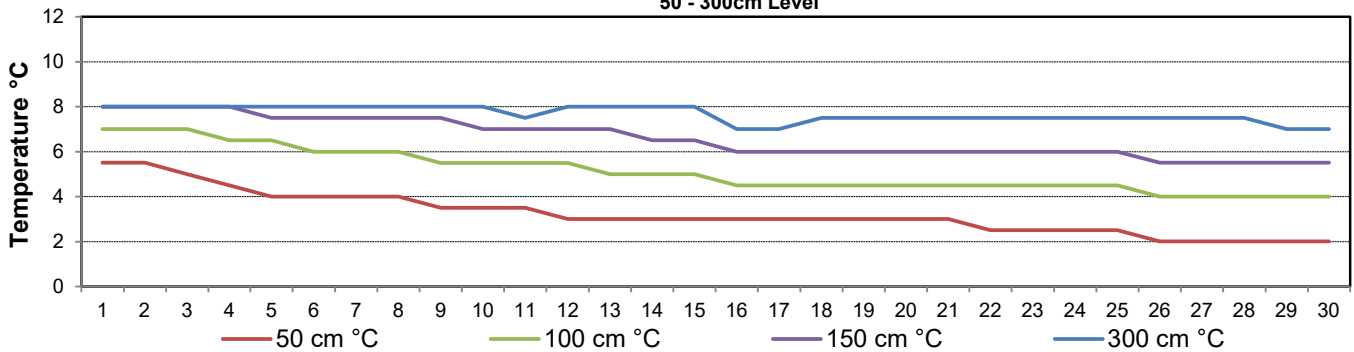
Soil Temperatures for November 2021

Surface - 20cm Level



Soil Temperatures for November 2021

50 - 300cm Level





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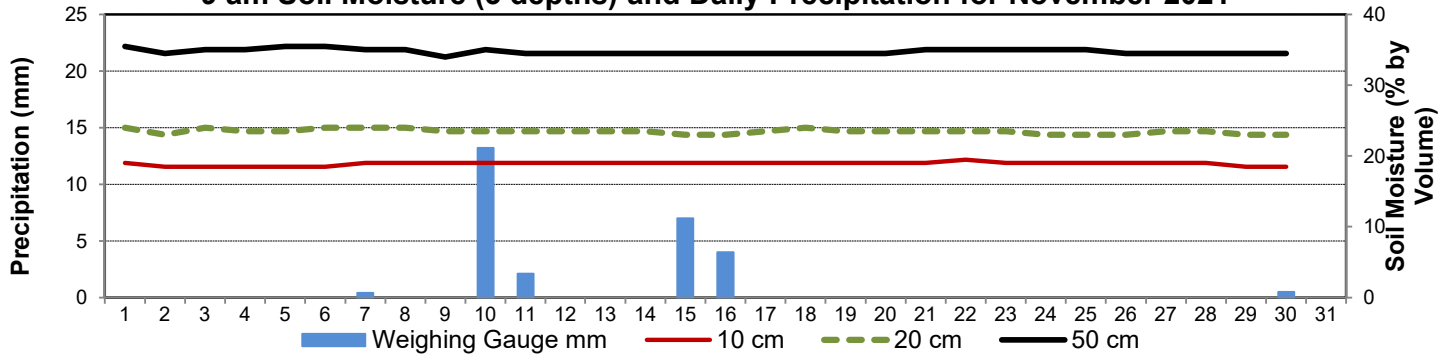
November 2021

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	5.0	11.1	17.0	19.0	24.0	35.5												
2	6.0	12.0	17.2	18.5	23.0	34.5												
3	4.0	9.1	13.3	18.5	24.0	35.0												
4	2.0	6.4	11.2	18.5	23.5	35.0												
5	6.0	15.5	22.0	18.5	23.5	35.5												
6	3.0	9.5	13.9	18.5	24.0	35.5												
7	6.0	14.4	21.0	19.0	24.0	35.0												
8	8.0	15.1	24.1	19.0	24.0	35.0												
9	9.0	21.4	31.2	19.0	23.5	34.0												
10	18.0	23.2	34.3	19.0	23.5	35.0												
11	11.0	15.7	21.6	19.0	23.5	34.5												
12	9.0	13.3	21.2	19.0	23.5	34.5												
13	5.0	13.2	18.1	19.0	23.5	34.5												
14	2.0	7.2	10.6	19.0	23.5	34.5												
15	7.0	22.5	31.2	19.0	23.0	34.5												
16	19.0	24.7	35.0	19.0	23.0	34.5												
17	21.0	28.9	38.3	19.0	23.5	34.5												
18	9.0	16.4	22.4	19.0	24.0	34.5												
19	6.0	14.0	18.7	19.0	23.5	34.5												
20	15.0	28.7	37.7	19.0	23.5	34.5												
21	9.0	16.4	25.4	19.0	23.5	35.0												
22	6.0	14.6	19.1	19.5	23.5	35.0												
23	12.0	26.2	39.2	19.0	23.5	35.0												
24	7.0	15.9	23.5	19.0	23.0	35.0												
25	5.0	8.1	12.0	19.0	23.0	35.0												
26	8.0	20.8	31.8	19.0	23.0	34.5												
27	10.0	17.9	25.0	19.0	23.5	34.5												
28	6.0	10.1	13.9	19.0	23.5	34.5												
29	8.0	15.2	22.2	18.5	23.0	34.5												
30	7.0	11.6	17.6	18.5	23.0	34.5												
Total																		
Mean				19	24	34.8												
Extreme	21.0	28.9	39.2	19.5	24	35.5												
Date	1.5	1.5	1	1	3.5	3.5												

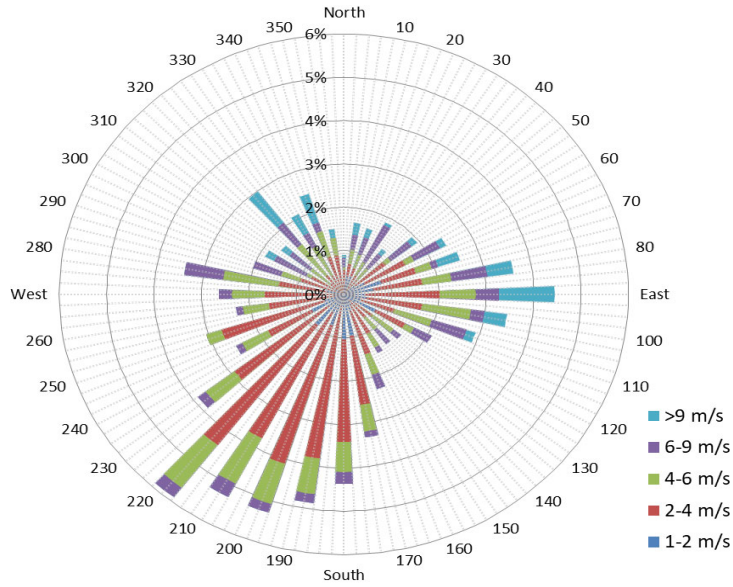
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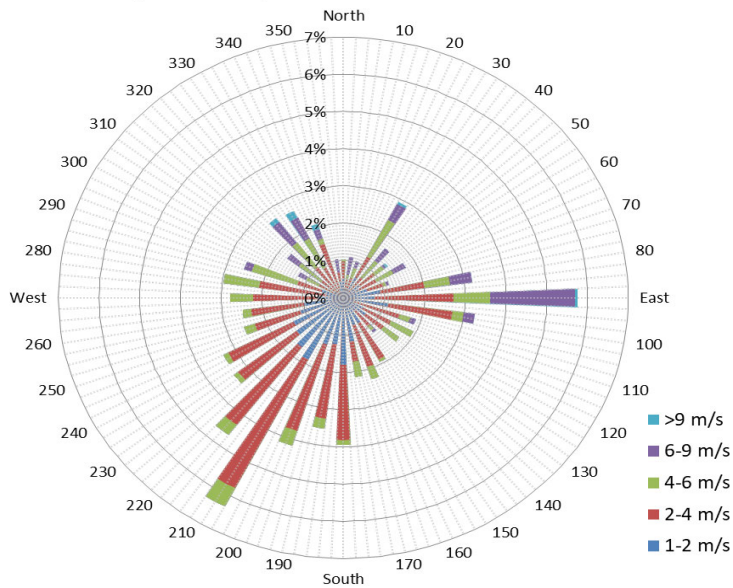
9 am Soil Moisture (3 depths) and Daily Precipitation for November 2021



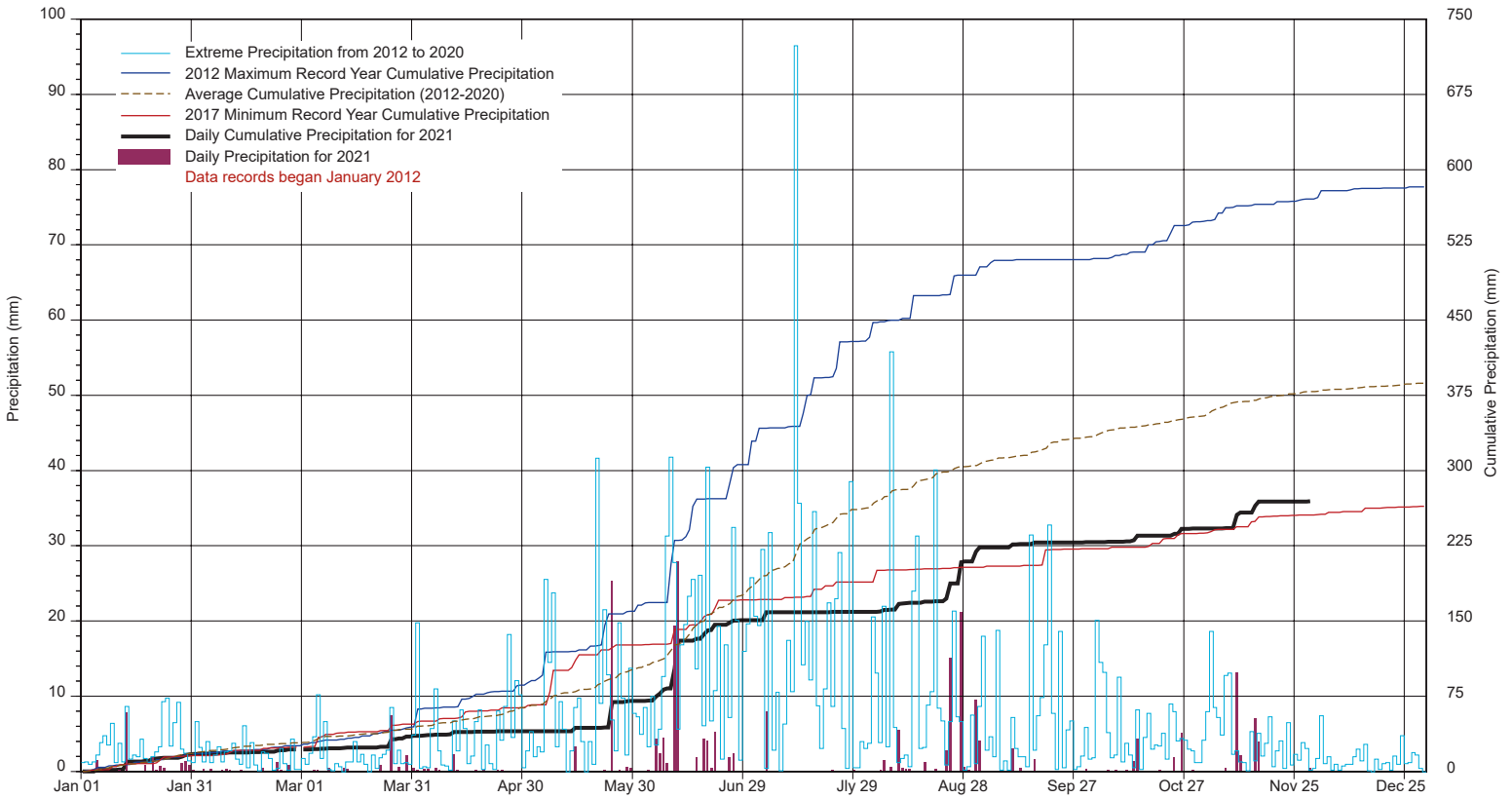
1/2 hr Maximum Wind Speed and Direction CLC November 2021



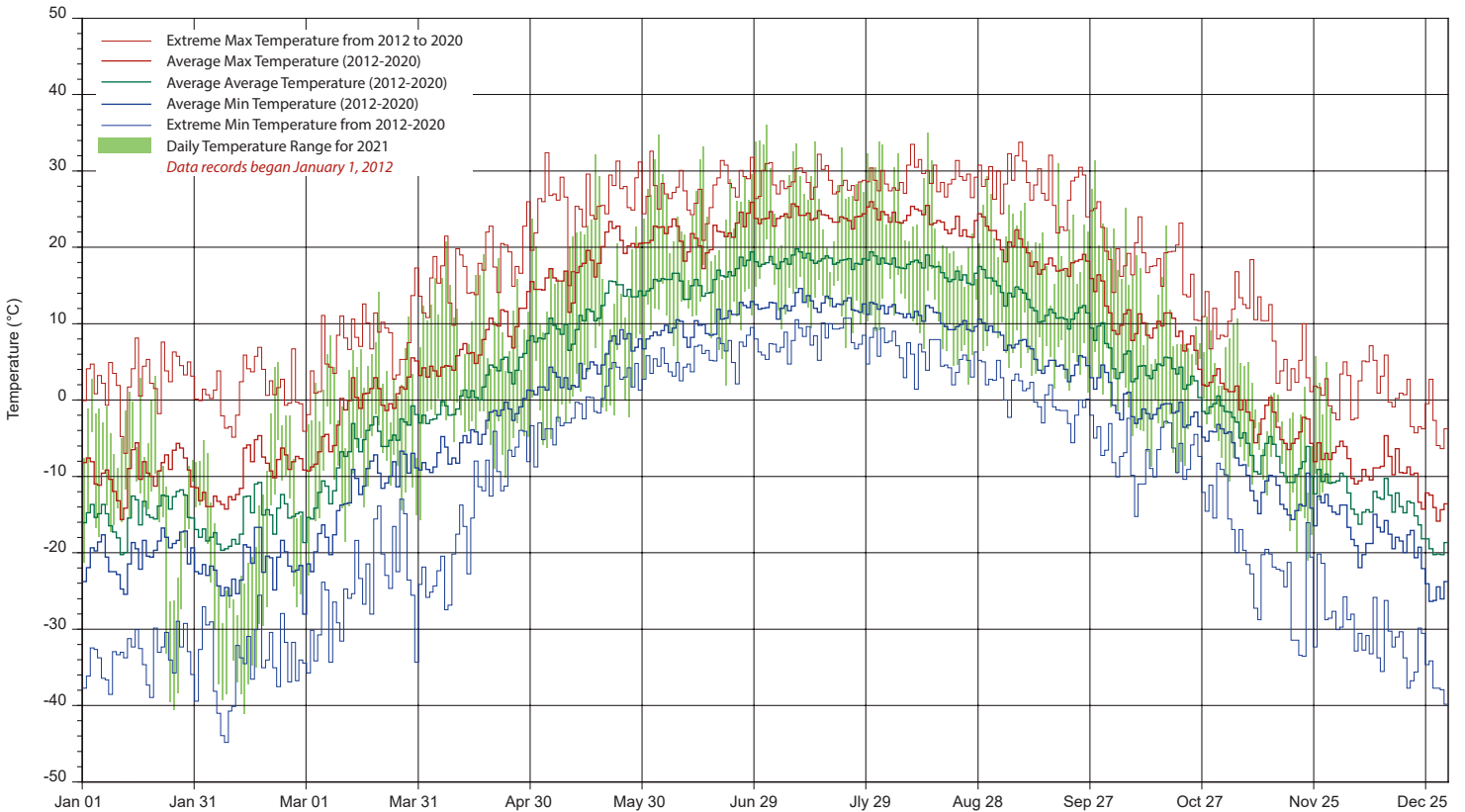
10 minute Average Wind Speed and Direction CLC November 2021



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:

