



SRC CLIMATE REFERENCE STATION DAILY DATA REPORT

CONSERVATION LEARNING CENTRE

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

Preliminary **November 2023**

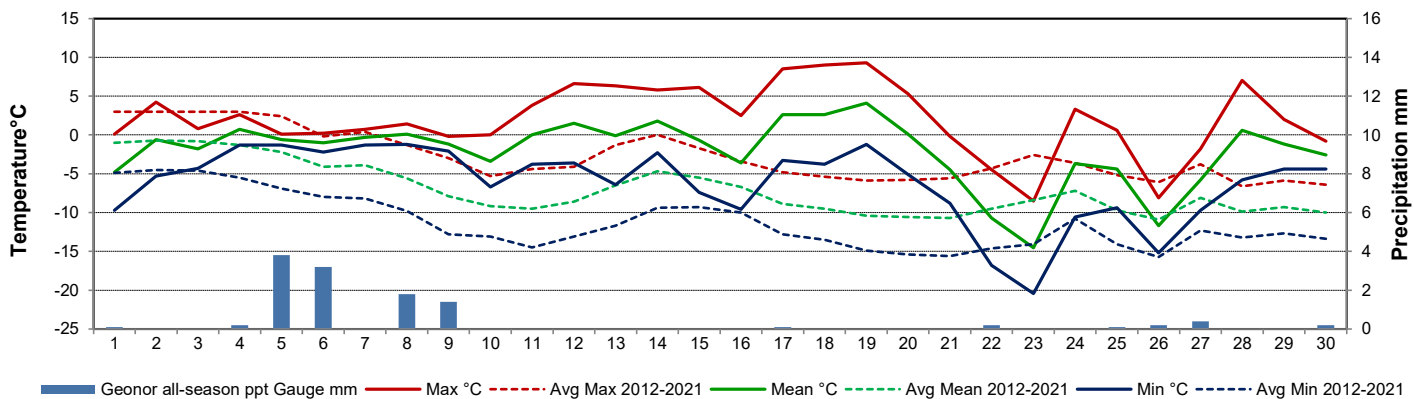
Day	Temperature						Degree-days			Precipitation			Relative Humidity		Station Pressure <i>corrected to sea level</i>	
	Max	Avg Max	Min	Avg Min	Mean	Avg Mean	Growing	Heating	Cooling	Geonor all-season ppt Gauge	Notes	Snow-on-Ground 0900h	Max ½ hr Avg	Min ½ hr Avg	Max ½ hr Avg	Min ½ hr Avg
	°C	2012-2021	°C	2012-2021	°C	2012-2021	5°C base	18°C base	18°C base	mm		cm	%	%	mbar	mbar
1	0.1	3.0	-9.7	-4.9	-4.8	-1.0	0.0	22.8	0.0	0.1		1	97	73	1018	1013
2	4.2	3.0	-5.3	-4.5	-0.6	-0.7	0.0	18.6	0.0	0.0		1	93	69	1013	1007
3	0.8	3.0	-4.3	-4.6	-1.8	-0.8	0.0	19.8	0.0	0.0		0	88	68	1016	1013
4	2.6	3.0	-1.3	-5.5	0.7	-1.3	0.0	17.3	0.0	0.2		0	96	83	1016	1007
5	0.1	2.4	-1.3	-6.9	-0.6	-2.2	0.0	18.6	0.0	3.8		1	100	94	1007	1002
6	0.2	-0.2	-2.2	-8.0	-1.0	-4.1	0.0	19.0	0.0	3.2		1	100	99	1007	1006
7	0.7	0.4	-1.3	-8.2	-0.3	-3.9	0.0	18.3	0.0	0.0		2	100	95	1007	1003
8	1.4	-1.3	-1.2	-9.8	0.1	-5.6	0.0	17.9	0.0	1.8		2	100	86	1012	1004
9	-0.2	-3.0	-2.1	-12.8	-1.2	-7.9	0.0	19.2	0.0	1.4		2	97	90	1019	1012
10	0.0	-5.3	-6.7	-13.1	-3.4	-9.2	0.0	21.4	0.0	0.0		3	97	82	1019	1011
11	3.8	-4.4	-3.8	-14.5	0.0	-9.5	0.0	18.0	0.0	0.0		3	92	70	1010	994
12	6.6	-4.1	-3.6	-13.1	1.5	-8.6	0.0	16.5	0.0	0.0		2	88	64	1018	995
13	6.3	-1.3	-6.4	-11.7	-0.1	-6.5	0.0	18.1	0.0	0.0		0	94	55	1018	997
14	5.8	0.0	-2.3	-9.4	1.8	-4.7	0.0	16.2	0.0	0.0		0	85	53	1006	995
15	6.1	-1.7	-7.4	-9.3	-0.7	-5.5	0.0	18.7	0.0	0.0		0	95	38	1008	1004
16	2.5	-3.4	-9.6	-10.0	-3.6	-6.7	0.0	21.6	0.0	0.0		0	95	59	1009	1001
17	8.5	-4.8	-3.3	-12.8	2.6	-8.9	0.0	15.4	0.0	0.1		0	85	55	1008	1001
18	9.0	-5.4	-3.8	-13.5	2.6	-9.5	0.0	15.4	0.0	0.0		0	98	59	1009	1004
19	9.3	-5.9	-1.2	-14.9	4.1	-10.4	0.0	13.9	0.0	0.0		0	95	61	1004	1000
20	5.3	-5.8	-5.1	-15.4	0.1	-10.6	0.0	17.9	0.0	0.0		0	93	48	1025	1005
21	-0.2	-5.6	-8.8	-15.6	-4.5	-10.7	0.0	22.5	0.0	0.0		0	77	46	1025	1009
22	-4.5	-4.3	-16.8	-14.6	-10.7	-9.5	0.0	28.7	0.0	0.2		1	82	55	1027	1011
23	-8.5	-2.6	-20.4	-14.1	-14.5	-8.4	0.0	32.5	0.0	0.0		0	88	47	1033	1027
24	3.3	-3.6	-10.6	-10.8	-3.7	-7.2	0.0	21.7	0.0	0.0		0	97	60	1029	1015
25	0.6	-5.2	-9.4	-14.1	-4.4	-9.7	0.0	22.4	0.0	0.1		1	95	65	1017	1007
26	-8.1	-6.1	-15.2	-15.7	-11.7	-10.9	0.0	29.7	0.0	0.2		1	90	66	1018	1016
27	-1.8	-3.8	-9.7	-12.3	-5.8	-8.1	0.0	23.8	0.0	0.4		1	94	82	1017	1005
28	7.0	-6.6	-5.8	-13.2	0.6	-9.9	0.0	17.4	0.0	0.0		1	93	46	1006	1005
29	2.0	-5.9	-4.4	-12.7	-1.2	-9.3	0.0	19.2	0.0	0.0		0	95	65	1008	1003
30	-0.8	-6.4	-4.4	-13.4	-2.6	-10.0	0.0	20.6	0.0	0.2		0	89	66	1010	1008
Total							0.0	603.1	0.0	11.7			Extreme / Date	Extreme / Date	Extreme / Date	Extreme / Date
Avg	2.1	-2.7	-6.2	-11.3	-2.1	-7.1	Monthly 2012 - 2021 Average			24.7	2012-2021 Average					
Extreme Date	9.3	18.4	-20.4	-33.6			2.2	740.4	0	243.1	2023 Cumulative ppt		100	38	1033	994
Date	19	2016	23	2013						368.3	Cumulative Average		5	15	23	11

Note: Red numbers indicate manual calculation; Red cell indicate data not available

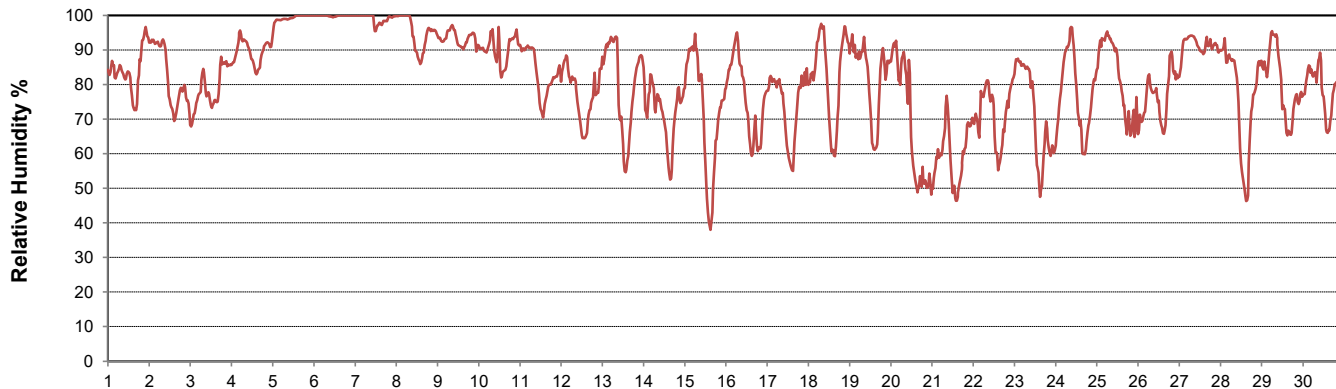
SRC proudly recognizes the following CRS supporters:



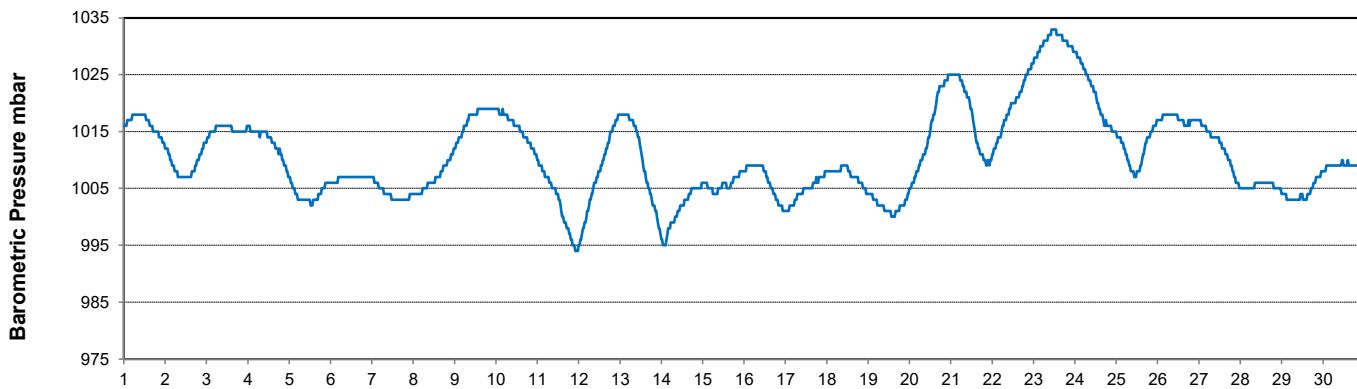
Temperature and Precipitation for November 2023



Relative Humidity for November 2023



Barometric Pressure Corrected to Sea Level for November 2023





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CONSERVATION LEARNING CENTRE

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

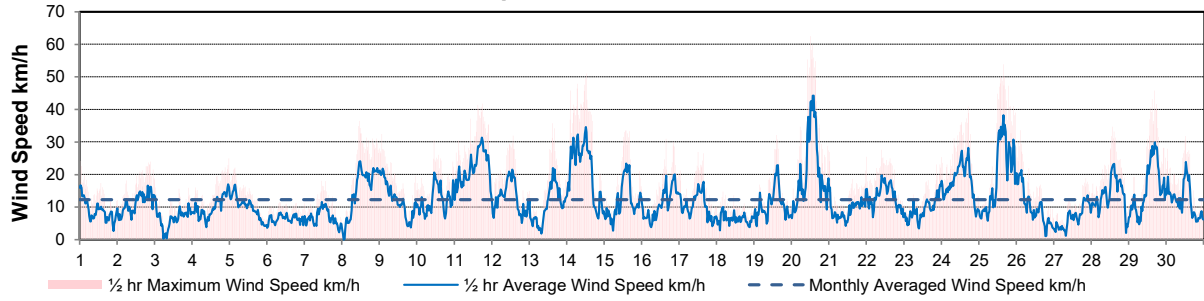
Preliminary **November 2023**

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	Diffuse
	km/h			km/h	°C	°C	°C	°C	°C	°C	°C	°C	hours	hours		MJ/m ²	MJ/m ²
1	24.2	NW	0:52	9.1	-3.5	0.0	0.5	1.5	4.0	6.5	8.5	8.0	3.2	9.5	33.6	3.6	2.3
2	23.9	NNE	21:52	11.5	-3.5	0.0	0.0	1.5	4.0	6.5	8.0	8.0	3.5	9.5	37.0	5.0	3.9
3	18.4	NNE	0:20	6.5	-3.5	0.0	0.5	1.5	4.0	6.5	8.0	8.0	0.1	9.4	1.1	1.6	1.6
4	24.9	ESE	23:32	10.0	-1.0	0.0	0.5	1.5	3.5	6.0	8.0	8.0	0.2	9.3	2.1	2.7	2.6
5	22.1	E	3:39	10.0	-1.0	0.5	0.5	1.5	3.5	6.0	7.5	8.0	0.0	9.3	0.0	0.8	0.7
6	11.4	ESE	8:20	6.3	-2.0	1.0	1.0	2.0	3.5	6.0	7.5	8.0	0.0	9.2	0.0	2.3	2.1
7	18.0	SE	11:23	7.0	0.0	1.0	1.0	2.0	3.5	5.5	7.5	8.0	0.0	9.2	0.0	1.1	1.0
8	36.4	W	11:19	15.2	0.5	1.5	1.5	2.0	3.5	5.5	7.0	8.0	0.4	9.1	4.4	3.0	2.7
9	32.4	NW	1:59	12.1	-2.0	1.0	1.5	2.0	3.5	5.5	7.0	8.0	0.2	9.0	2.2	3.1	2.9
10	30.5	S	11:24	12.2	-7.0	1.5	1.5	2.0	3.5	5.5	7.0	8.0	7.6	9.0	84.7	5.9	2.0
11	41.7	S	18:09	22.0	-4.0	1.0	1.0	2.0	3.5	5.5	7.0	8.0	6.3	8.9	70.7	5.3	1.6
12	31.9	WNN	13:49	12.8	0.5	1.0	1.0	2.0	3.5	5.5	7.0	8.0	7.5	8.9	84.7	5.3	1.0
13	35.7	SSE	15:09	10.6	-5.0	0.5	1.0	2.0	3.5	5.5	7.0	8.0	5.3	8.8	60.2	4.1	3.0
14	51.0	W	12:44	21.2	0.0	0.5	0.5	1.5	3.5	5.0	6.5	8.0	5.0	8.7	57.2	4.5	1.6
15	33.5	W	14:10	12.1	-4.0	0.5	0.5	1.5	3.5	5.0	6.5	8.0	6.5	8.7	74.8	5.2	1.3
16	30.9	W	15:36	11.1	-5.0	0.0	0.5	1.5	3.0	5.0	6.5	8.0	6.1	8.6	70.7	4.9	1.7
17	26.9	W	12:16	10.2	-2.0	-0.5	0.0	1.0	3.0	5.0	6.5	8.0	6.6	8.6	76.9	4.7	0.9
18	14.7	WSW	4:06	6.4	-4.5	0.0	0.0	1.0	3.0	5.0	6.5	8.0	7.4	8.5	86.8	5.0	1.0
19	32.0	S	14:45	10.9	-2.5	-0.5	0.0	1.0	2.5	4.5	6.5	7.5	7.6	8.5	89.6	4.3	2.0
20	62.5	ESE	12:15	21.2	3.0	-0.5	0.0	1.0	2.5	4.5	6.0	7.5	4.9	8.4	58.1	3.8	1.3
21	26.9	NW	0:27	9.1	-8.5	-1.0	-0.5	1.0	2.5	4.5	6.0	7.5	3.8	8.4	45.3	2.8	2.1
22	27.6	N	9:58	13.2	-6.5	-1.5	-1.0	0.5	2.5	4.5	6.0	7.5	3.6	8.3	43.2	3.3	2.4
23	23.1	SW	23:25	9.4	-19.0	-4.0	-2.5	0.0	2.0	4.5	6.0	7.5	7.6	8.3	91.8	5.3	0.9
24	40.8	WSW	17:28	17.8	-8.0	-4.5	-3.5	-0.5	2.0	4.0	6.0	7.5	5.2	8.2	63.2	4.0	1.7
25	53.8	NW	15:55	19.8	-7.0	-3.5	-3.0	-1.0	1.5	4.0	6.0	7.5	0.0	8.2	0.0	1.1	1.0
26	33.6	NW	2:59	9.8	-11.0	-4.0	-3.5	-1.0	1.0	4.0	5.5	7.5	3.4	8.2	41.7	3.2	1.5
27	18.8	SSW	20:56	7.0	-6.0	-3.5	-3.5	-1.5	1.0	4.0	5.5	7.5	0.0	8.1	0.0	1.7	1.6
28	34.7	WNN	13:54	13.9	-3.0	-3.0	-2.5	-1.5	1.0	3.5	5.5	7.5	7.5	8.1	93.1	4.0	0.7
29	45.8	NW	16:30	15.8	-5.0	-2.5	-2.5	-1.0	0.5	3.5	5.5	7.5	3.1	8.0	38.7	2.9	1.8
30	31.8	NW	12:39	12.4	-2.5	-2.0	-2.0	-1.0	0.5	3.5	5.5	7.5	0.3	8.0	3.8	1.6	1.5
Total													112.9	260.8	43.3	106.1	52.4
Mean				12.2	-4.1	-0.7	-0.4	0.9	2.8	5.0	6.7	7.8					
Extreme	62.5	ESE	12:15														
Date	20																

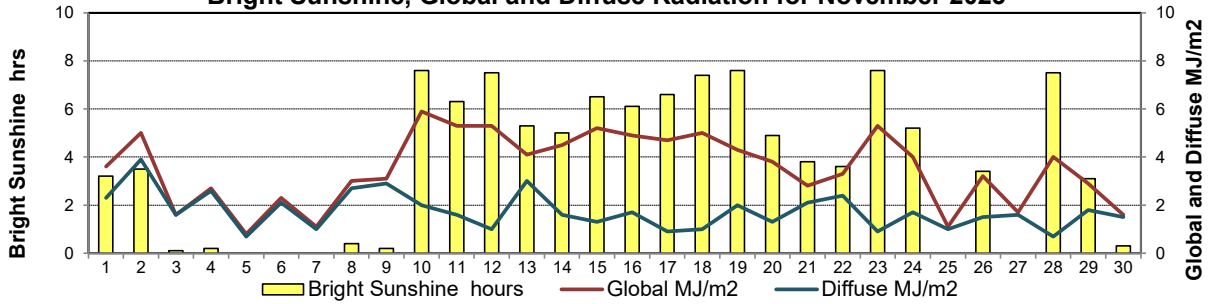
GLOSSARY OF TERMS

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

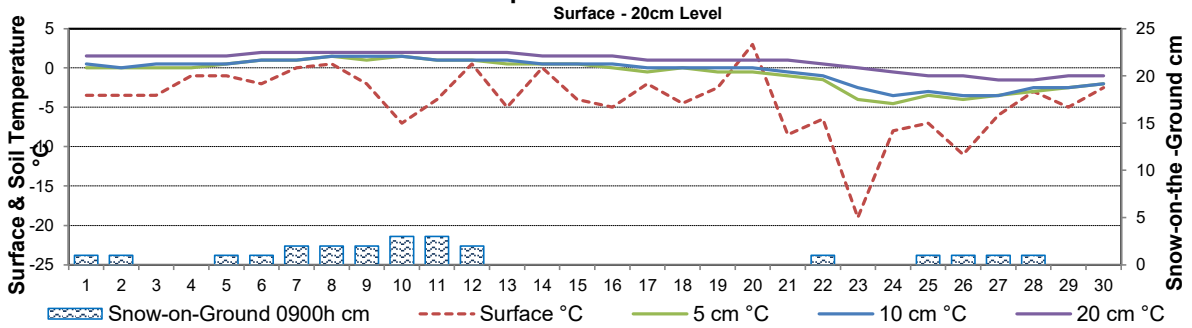
Wind Speed for November 2023



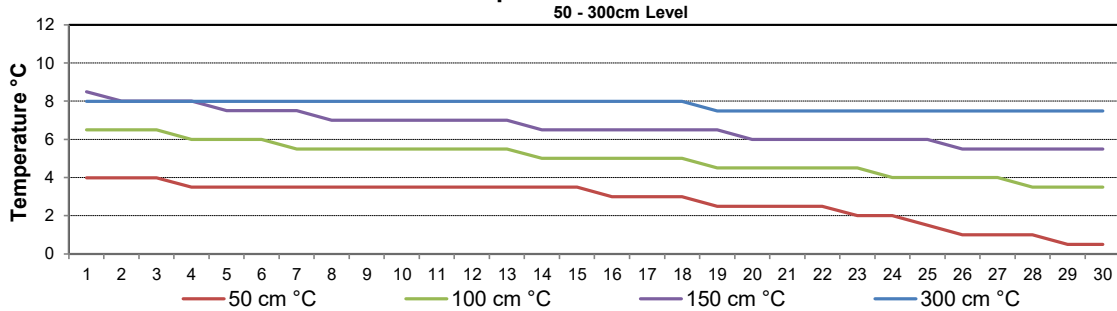
Bright Sunshine, Global and Diffuse Radiation for November 2023



Soil Temperatures for November 2023



Soil Temperatures for November 2023





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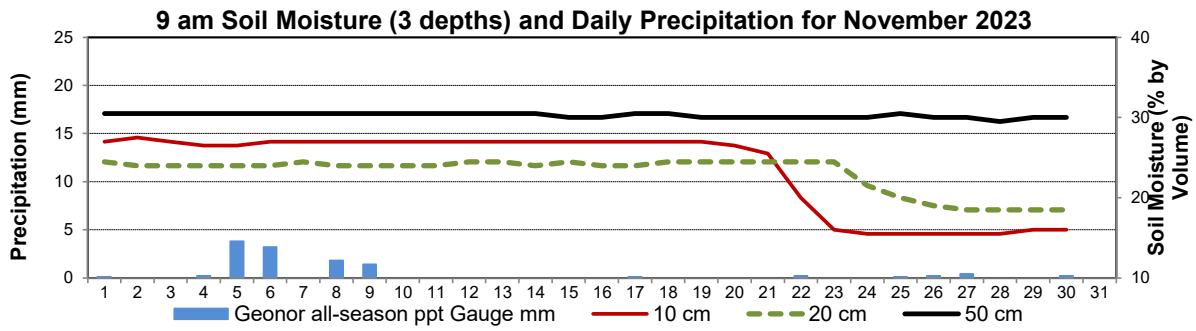
Preliminary

November 2023

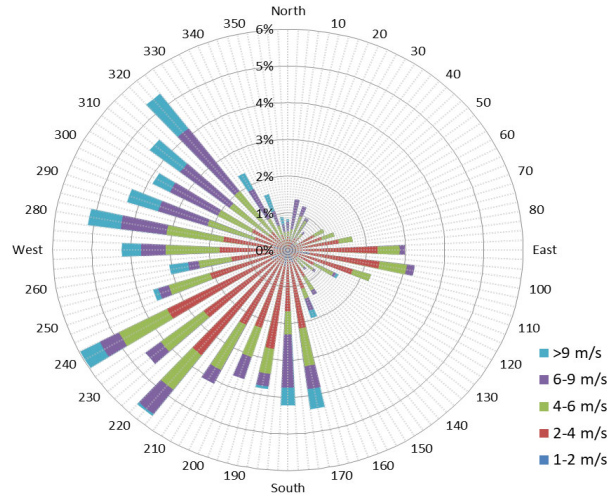
Day	2 meter Wind Speed			Soil Moisture at 0900 hrs (rounded to the 0.5%)								
	Daily Average	Max ½ hr Avg	½ hr Extreme Max	10 cm	20 cm	50 cm						
	km/h	km/h	km/h	% by volume (soil type is Clay Loam)			Fall Temperature trends (2012-2023)					
1	7.0	12.7	17.9	27.0	24.5	30.5						
2	9.0	13.3	18.9	27.5	24.0	30.5						
3	5.0	9.9	14.5	27.0	24.0	30.5						
4	8.0	13.2	20.2	26.5	24.0	30.5						
5	11.0	14.6	21.0	26.5	24.0	30.5						
6	7.0	9.3	13.9	27.0	24.0	30.5						
7	6.0	9.6	13.3	27.0	24.5	30.5						
8	12.0	18.4	27.0	27.0	24.0	30.5						
9	10.0	16.5	22.9	27.0	24.0	30.5						
10	9.0	16.3	25.4	27.0	24.0	30.5						
11	16.0	22.9	30.8	27.0	24.0	30.5						
12	10.0	16.5	25.2	27.0	24.5	30.5						
13	6.0	15.0	25.4	27.0	24.5	30.5						
14	15.0	25.5	36.9	27.0	24.0	30.5						
15	6.0	17.5	27.2	27.0	24.5	30.0						
16	8.0	15.6	23.7	27.0	24.0	30.0						
17	6.0	12.9	20.0	27.0	24.0	30.5						
18	1.0	7.7	12.8	27.0	24.5	30.5						
19	6.0	17.1	25.0	27.0	24.5	30.0						
20	15.0	31.8	43.9	26.5	24.5	30.0						
21	6.0	11.9	17.7	25.5	24.5	30.0						
22	10.0	15.4	21.0	20.0	24.5	30.0						
23	7.0	13.7	19.3	16.0	24.5	30.0						
24	14.0	22.1	33.1	15.5	21.5	30.0						
25	14.0	28.0	39.6	15.5	20.0	30.5						
26	8.0	16.4	24.3	15.5	19.0	30.0						
27	6.0	11.0	15.2	15.5	18.5	30.0						
28	10.0	17.6	27.9	15.5	18.5	29.5						
29	11.0	21.9	31.2	16.0	18.5	30.0						
30	8.0	17.4	25.0	16.0	18.5	30.0						
Total							<p>Fall temperature was the second warmest mean average temperature at 5.1C. Fall 2015 was warmer at 5.2C</p> <p>Fall precipitation amounts in 2023 are the lowest this site has measured over it's operating period of 2012-2023 with 42.1mm being measured.</p> <p>November 2023 measured the same minimum precipitation amount of 11.7mm as November 2016</p>					
Mean				24	23	30.3						
Extreme	16.0	31.8	43.9	27.5	24.5	30.5						
Date	2	1	1	1.5	1.5	1.5						

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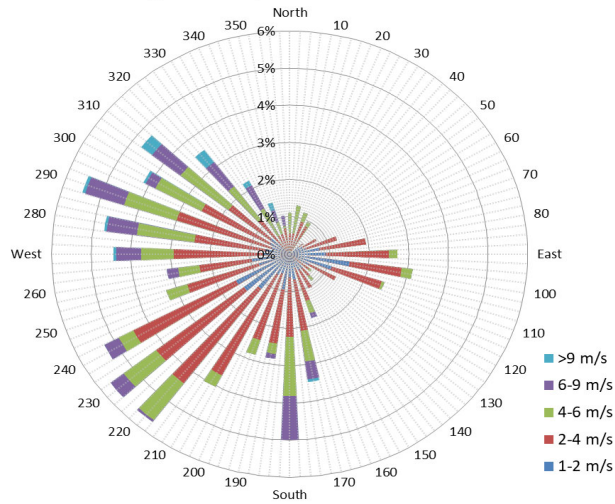




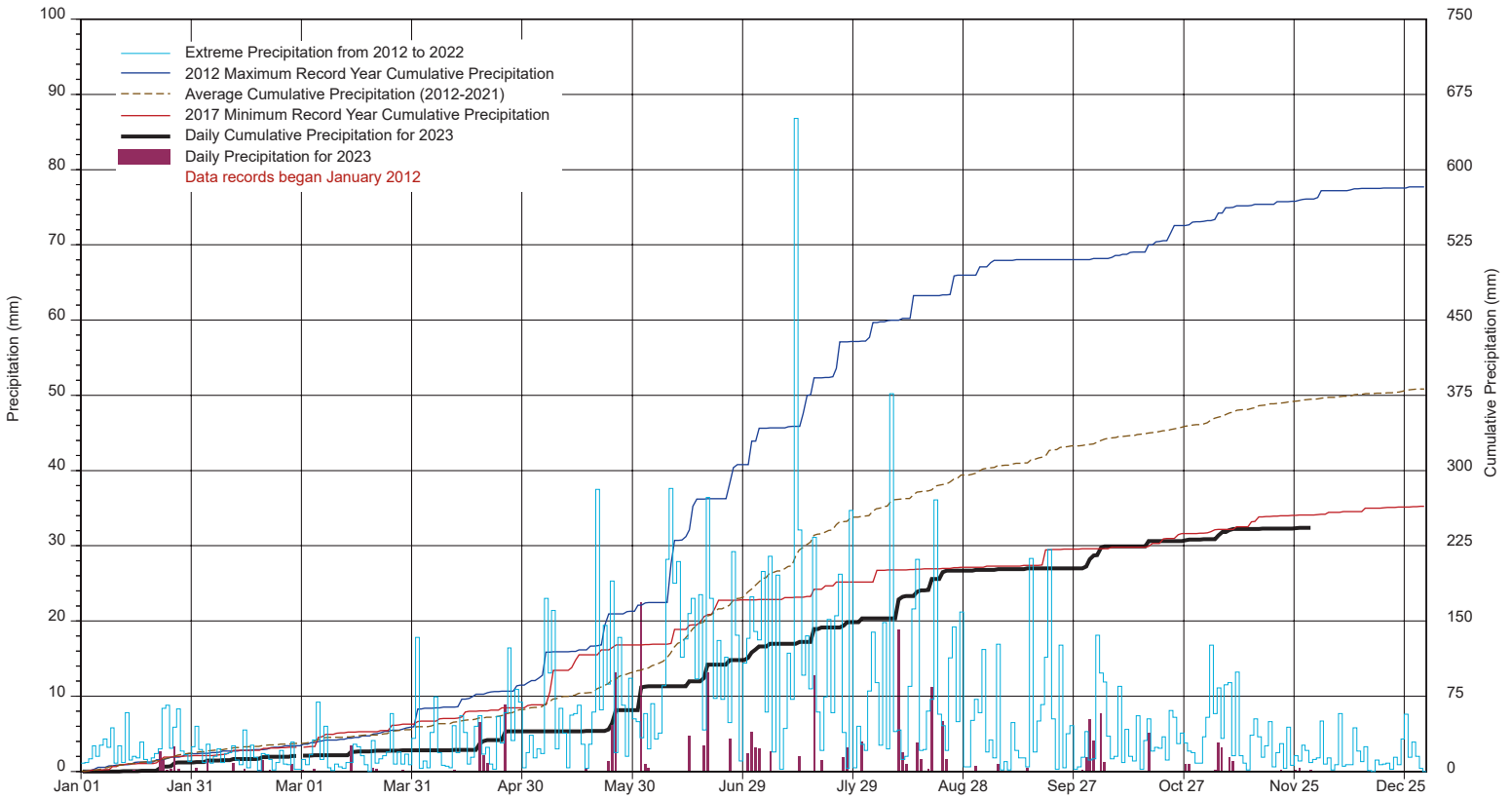
1/2 hr Maximum Wind Speed and Direction CLC Nov 2023



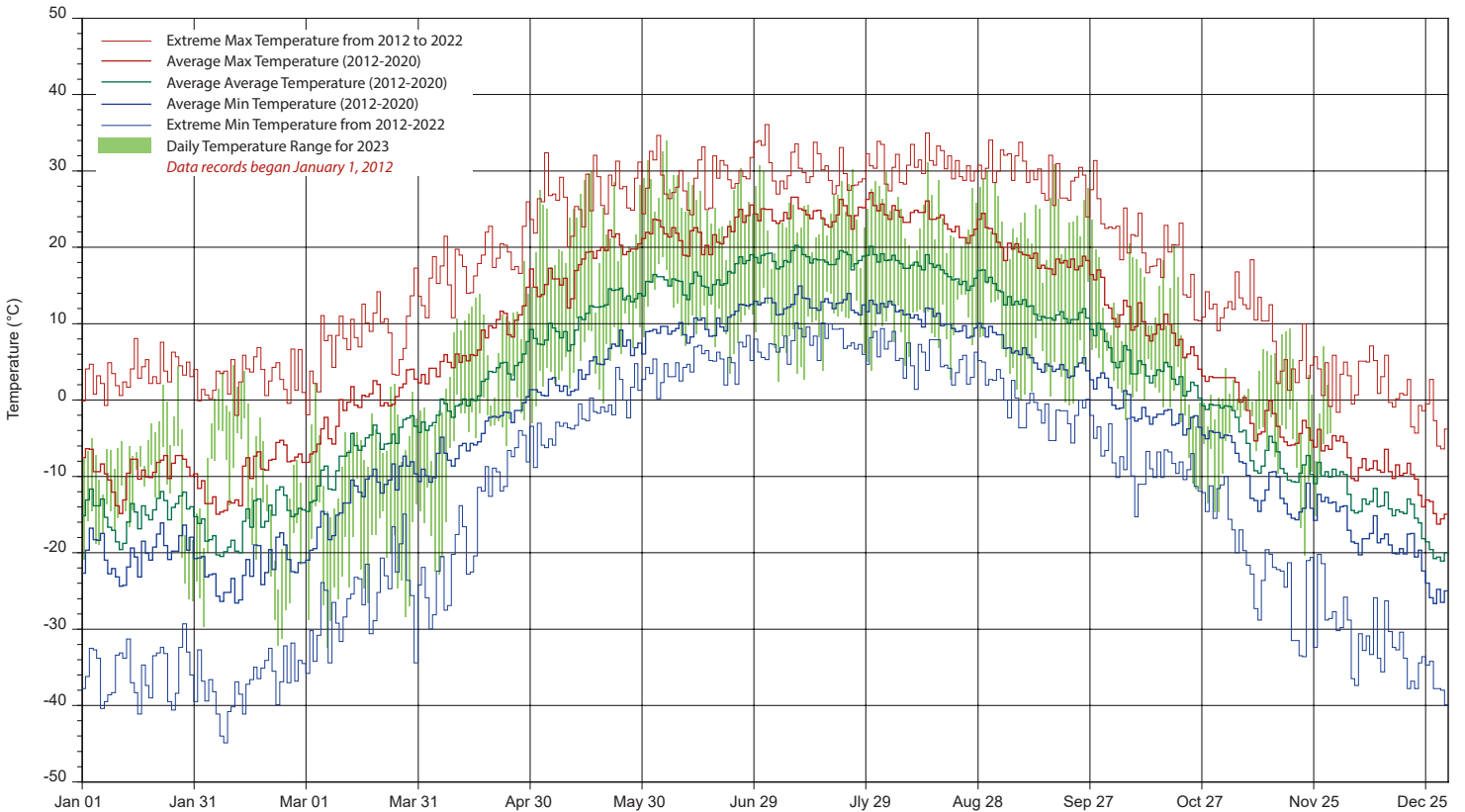
10 minute Average Wind Speed and Direction CLC Nov 2023



SRC's CLIMATE REFERENCE STATION at the Conservation Learning Centre 2023 PRECIPITATION AND AVERAGE



2023 TEMPERATURES AND AVERAGES



SRC proudly recognizes the following CRS supporters:

