



SRC CLIMATE REFERENCE STATION DAILY DATA REPORT

CONSERVATION LEARNING CENTRE

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

Preliminary **April 2024**

Day	Temperature (HMP155A)						Degree-days			Precipitation			Relative Humidity (HMP115A)		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	9.8	3.4	-7.7	-9.0	1.1	-2.8	0.0	16.9	0.0	0.0		0	87	30	1011	1001
2	10.5	2.2	-7.0	-9.9	1.8	-3.9	0.0	16.2	0.0	0.0		0	85	30	1016	1011
3	13.3	4.2	0.3	-10.7	6.8	-3.3	1.8	11.2	0.0	0.0		0	85	53	1012	1004
4	4.2	4.2	-3.8	-10.1	0.2	-2.9	0.0	17.8	0.0	4.4		1	96	72	1016	1012
5	10.0	3.1	-2.0	-6.9	4.0	-1.9	0.0	14.0	0.0	0.0		1	90	42	1013	1007
6	12.4	5.1	-2.5	-4.8	5.0	0.2	0.0	13.0	0.0	0.0		0	88	49	1009	1006
7	15.0	6.0	-0.5	-6.9	7.3	-0.4	2.3	10.7	0.0	0.0		0	84	37	1010	1008
8	14.4	5.0	-3.6	-7.8	5.4	-1.4	0.4	12.6	0.0	0.0		0	94	43	1009	1005
9	14.9	4.3	-6.2	-8.6	4.4	-2.2	0.0	13.6	0.0	0.0		0	98	28	1007	1003
10	10.1	6.1	-1.8	-7.6	4.2	-0.7	0.0	13.8	0.0	0.0		0	80	40	1016	1007
11	8.7	5.0	-5.4	-5.9	1.7	-0.5	0.0	16.3	0.0	0.0		0	93	39	1018	1015
12	10.5	5.9	-5.6	-5.6	2.5	0.2	0.0	15.5	0.0	0.0		0	88	42	1016	1003
13	14.9	5.2	-7.2	-6.6	3.9	-0.7	0.0	14.1	0.0	0.0		0	97	23	1010	1003
14	13.9	6.0	-6.7	-5.6	3.6	0.2	0.0	14.4	0.0	0.0		0	79	16	1014	1011
15	12.7	5.9	-2.5	-5.8	5.1	0.0	0.1	12.9	0.0	0.0		0	64	22	1012	1008
16	6.4	6.6	-2.7	-5.4	1.9	0.6	0.0	16.1	0.0	6.0		0	97	62	1009	1006
17	-0.7	9.2	-7.4	-4.3	-4.1	2.5	0.0	22.1	0.0	4.1		8	97	82	1018	1006
18	-4.5	8.2	-9.6	-2.7	-7.1	2.8	0.0	25.1	0.0	1.8		5	90	73	1024	1018
19	0.3	9.8	-9.2	-2.2	-4.5	3.8	0.0	22.5	0.0	0.0		6	82	44	1028	1024
20	9.1	9.5	-11.5	-2.1	-1.2	3.7	0.0	19.2	0.0	0.0		2	72	28	1026	1018
21	14.4	10.6	-6.6	-2.2	3.9	4.3	0.0	14.1	0.0	0.0		0	78	28	1018	997
22	14.9	11.7	-6.3	-2.0	4.3	4.9	0.0	13.7	0.0	0.0		0	97	19	1009	995
23	16.2	11.4	-5.9	-1.5	5.2	5.0	0.2	12.8	0.0	0.0		0	87	20	1014	1010
24	21.6	8.6	2.1	-1.6	11.9	3.5	6.9	6.1	0.0	0.0		0	65	13	1013	1002
25	19.4	8.3	4.5	-2.9	12.0	2.7	7.0	6.0	0.0	0.1		0	48	19	1002	999
26	12.1	10.5	-1.2	-1.3	5.5	4.6	0.5	12.5	0.0	0.2		0	50	30	1015	1002
27	9.4	11.2	-7.0	-1.3	1.2	5.0	0.0	16.8	0.0	0.0		0	75	21	1019	1015
28	15.8	12.4	0.4	-0.3	8.1	6.1	3.1	9.9	0.0	0.0		0	60	33	1015	1003
29	19.2	14.8	2.6	0.5	10.9	7.7	5.9	7.1	0.0	0.3		0	61	22	1004	1001
30	16.7	17.2	-1.7	1.4	7.5	9.3	2.5	10.5	0.0	0.3		0	90	37	1007	1002
Total							30.7	427.5	0.0	17.2						
Avg	11.5	7.7	-4.1	-4.7	3.8	1.5	Monthly 2012 - 2021 Average			19.6	2012-2021 Average					
Extreme	21.6	26.0	-11.5	-30.0			29.8	495.4	0	52.7	2024 Cumulative ppt		98	13	1028	995
Date	24	2015	20	2020						61.4	Cumulative Average		9	24	19	22

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

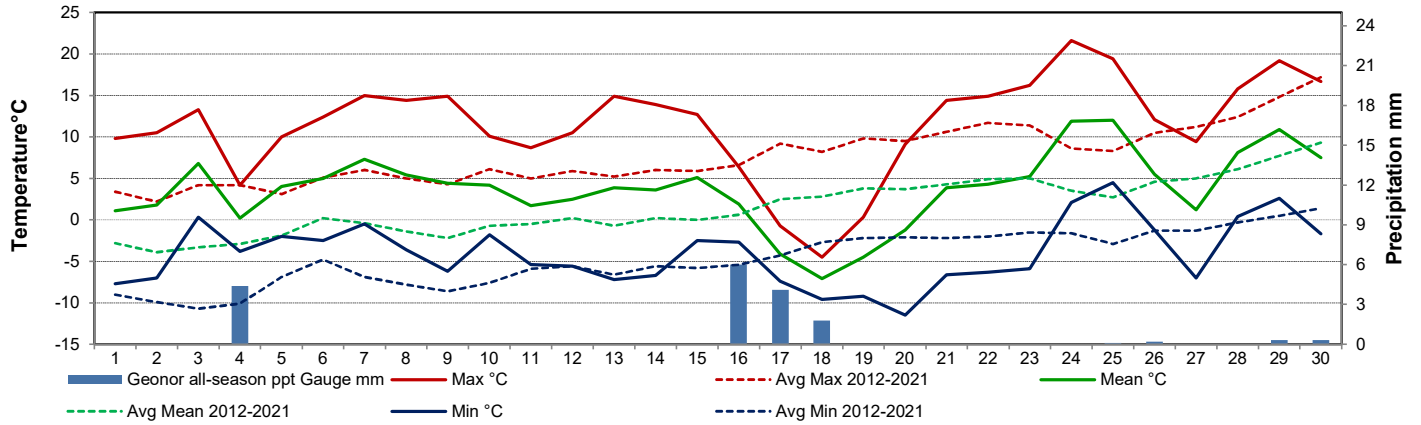
Precipitation is measured precipitation. It has not been corrected for wind speed.

30 April 2024 Spring Maintenance re-calibrated tipping bucket, spring maintenance on Geonor, changed dessicant on required instruments, cleaned radiation sensors, camera and solar panels

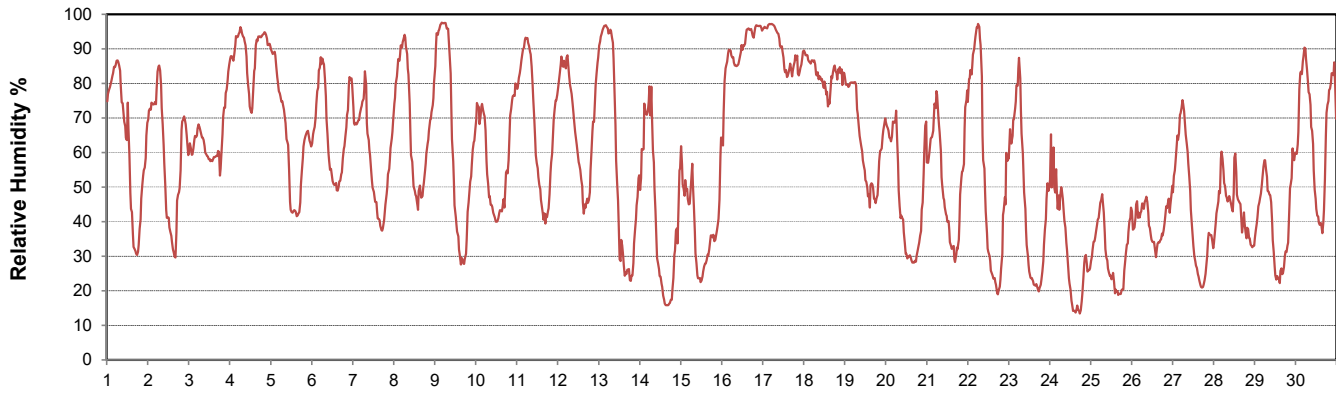
SRC proudly recognizes the following CRS supporters:



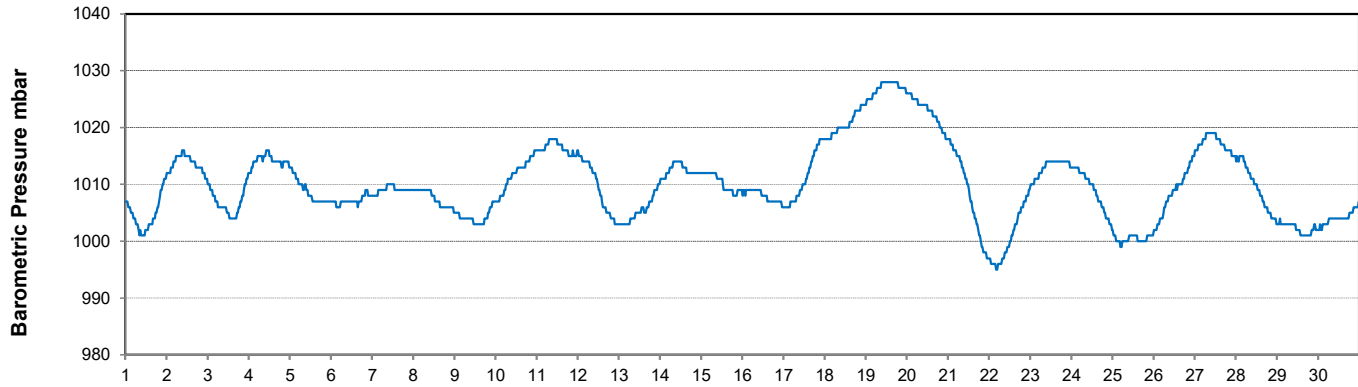
Temperature and Precipitation for April 2024



Relative Humidity for April 2024



Barometric Pressure Corrected to Sea Level for April 2024





SRC CLIMATE REFERENCE STATION DAILY DATA REPORT

CONSERVATION LEARNING CENTRE

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

Preliminary

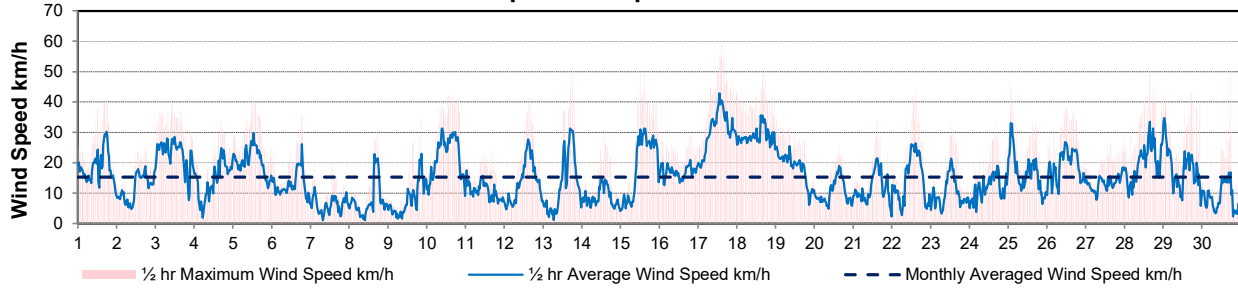
April 2024

Day	Wind Gust			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	40.8	NW	16:22	18.3	0.0	-3.5	-3.5	-3.0	-2.0	-1.0	0.0	3.0	7.9	13.1	60.4	15.1	4.8
2	25.6	SSE	17:25	12.0	1.5	-2.0	-2.0	-2.0	-2.0	-1.0	0.0	3.0	11.9	13.1	90.6	18.7	3.4
3	39.3	SSE	9:59	22.9	4.5	-0.5	-1.0	-1.5	-1.5	-1.0	0.0	3.0	11.7	13.2	88.6	17.4	5.4
4	34.4	NE	16:05	14.5	1.5	-0.5	-1.0	-1.0	-1.5	-1.0	0.0	3.0	0.0	13.3	0.0	2.8	2.6
5	42.5	ESE	11:20	20.5	3.0	-0.5	-0.5	-1.0	-1.0	-1.0	0.0	3.0	10.1	13.4	75.7	18.0	4.7
6	35.5	SSE	18:25	12.6	4.5	0.0	-0.5	-1.0	-1.0	-1.0	0.0	3.0	11.6	13.4	86.4	17.6	5.4
7	20.1	SE	12:54	6.1	6.0	0.0	-0.5	-0.5	-1.0	-1.0	0.0	3.0	7.7	13.5	57.1	15.4	6.2
8	31.5	NW	17:15	7.6	3.5	0.0	0.0	-0.5	-1.0	-1.0	0.0	3.0	8.4	13.6	62.0	15.2	5.7
9	34.6	NNW	20:08	8.0	4.0	0.0	0.0	-0.5	-0.5	-1.0	0.0	3.0	7.9	13.6	58.0	13.8	8.0
10	43.3	NW	18:35	22.4	6.5	0.5	0.0	-0.5	-0.5	-0.5	0.0	3.0	9.4	13.7	68.7	16.4	5.9
11	23.9	NE	15:44	10.5	1.0	0.0	0.0	0.0	-0.5	-0.5	0.0	3.0	7.5	13.8	54.5	15.2	7.5
12	41.3	SSE	15:08	13.8	3.0	0.0	0.0	0.0	-0.5	-0.5	0.0	3.0	1.9	13.8	13.7	7.8	6.5
13	49.7	WNW	16:12	12.6	3.0	0.0	0.0	0.0	-0.5	-0.5	0.0	3.0	7.2	13.9	51.8	15.5	5.8
14	29.5	NNW	13:46	8.7	5.5	0.0	0.0	0.0	-0.5	-0.5	0.0	3.0	12.9	14.0	92.4	19.0	4.9
15	49.6	ESE	11:56	19.3	10.0	0.0	0.0	0.0	0.0	-0.5	0.0	3.0	3.6	14.0	25.7	10.0	7.9
16	29.6	N	19:02	17.1	3.5	1.5	1.0	0.0	0.0	-0.5	0.0	3.0	0.0	14.1	0.0	2.2	1.9
17	60.2	N	14:20	30.5	-0.5	0.5	0.0	0.0	0.0	-0.5	0.0	2.5	0.0	14.2	0.0	12.2	10.7
18	49.9	N	15:49	28.8	-6.5	0.0	-0.5	0.0	0.0	-0.5	0.0	2.5	0.0	14.2	0.0	13.3	11.6
19	35.0	N	0:00	17.8	-6.5	-0.5	-0.5	-0.5	0.0	-0.5	0.0	2.5	13.2	14.3	92.3	24.9	4.7
20	25.4	WNW	14:44	10.3	0.0	0.0	0.0	0.0	0.0	-0.5	0.0	2.5	13.9	14.4	96.8	24.6	3.8
21	34.3	S	14:36	11.8	3.5	0.0	0.0	0.0	0.0	-0.5	0.0	2.5	11.6	14.4	80.4	21.7	4.5
22	43.3	NE	14:21	14.4	4.5	0.5	0.5	0.0	0.0	-0.5	0.0	2.5	12.7	14.5	87.6	20.0	7.6
23	33.9	NNE	11:53	10.1	6.5	0.5	0.5	0.5	0.0	-0.5	0.0	2.5	13.8	14.6	94.8	23.9	3.1
24	32.9	SSE	16:32	12.4	11.5	2.0	1.5	0.5	0.5	-0.5	0.0	2.5	12.7	14.6	86.9	22.1	6.0
25	46.3	S	1:09	16.3	15.5	4.5	3.5	2.0	1.0	-0.5	0.0	2.5	12.6	14.7	85.8	19.9	9.1
26	37.7	N	11:43	19.1	9.5	4.0	3.5	2.5	1.5	-0.5	0.0	2.5	13.8	14.8	93.6	24.6	3.4
27	28.0	ESE	23:51	13.6	2.5	1.5	2.0	2.0	2.0	-0.5	0.0	2.5	13.8	14.8	93.1	24.9	3.5
28	49.0	SSE	15:01	20.6	6.0	3.0	3.0	2.5	2.0	-0.5	0.0	2.5	1.5	14.9	10.1	6.5	5.5
29	57.6	SSE	15:09	17.7	10.5	3.0	3.0	2.0	1.5	-0.5	0.0	2.5	6.6	14.9	44.2	14.8	10.0
30	49.6	E	17:11	9.0	8.0	4.0	3.5	3.0	2.0	-0.5	0.0	2.5	8.4	15.0	56.0	15.3	8.7
Total													254.3	421.6	60.3	488.8	178.8
Mean					4.2	0.6	0.4	0.1	-0.1	-0.7	0.0	2.8					
Extreme	60.2	N	14:20														
Date	17																

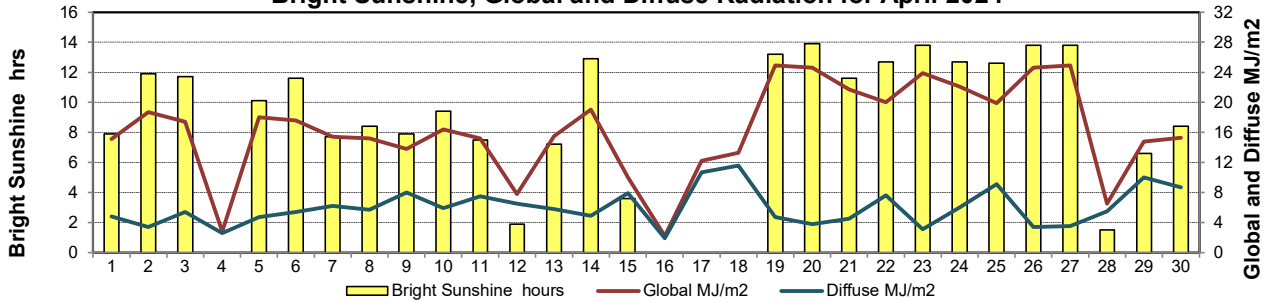
GLOSSARY OF TERMS

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	Diffuse is radiation reaching the earth's surface after having been scattered from the direct solar beam
Cooling (T _m -18°C); if T _m ≤ 18°C then CDD = 0	Global is the sum of the direct solar and diffuse radiation
T Trace of Precipitation	Relative Humidity The ratio of the air's water vapour content to its water vapour capacity which changes with temperature.
SOG Depth of snow-on-the-ground	
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 April 2024

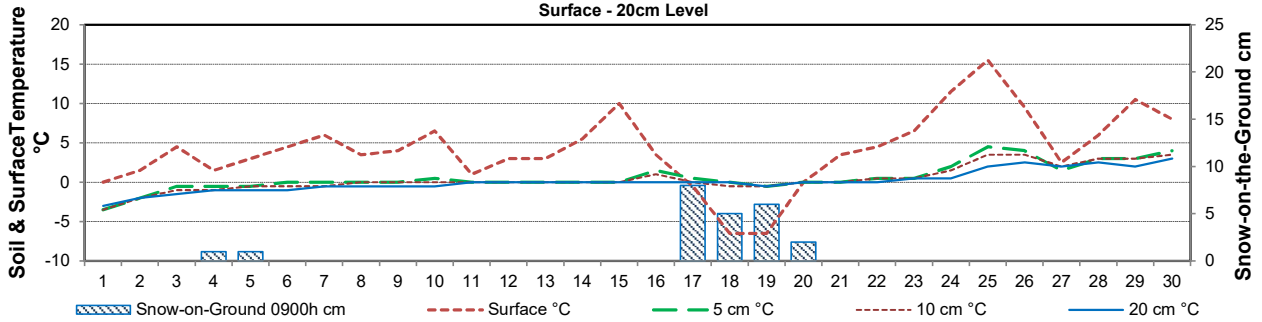


Bright Sunshine, Global and Diffuse Radiation for April 2024



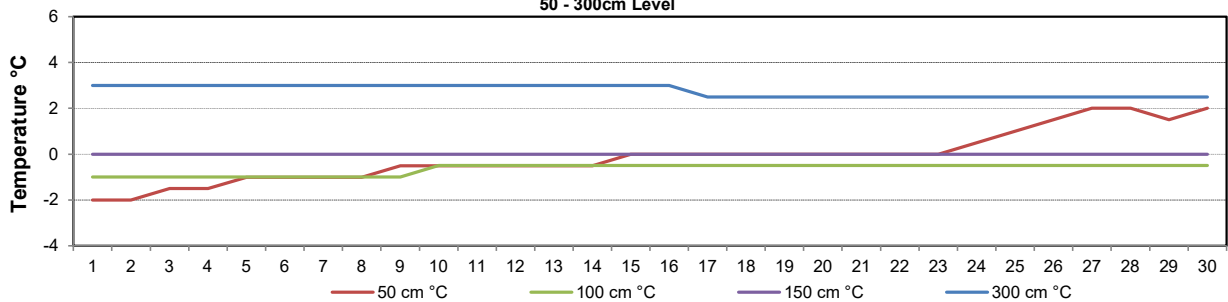
Soil Temperatures for April 2024

Surface - 20cm Level



Soil Temperatures for April 2024

50 - 300cm Level





SRC CLIMATE REFERENCE STATION DAILY DATA REPORT
CONSERVATION LEARNING CENTRE

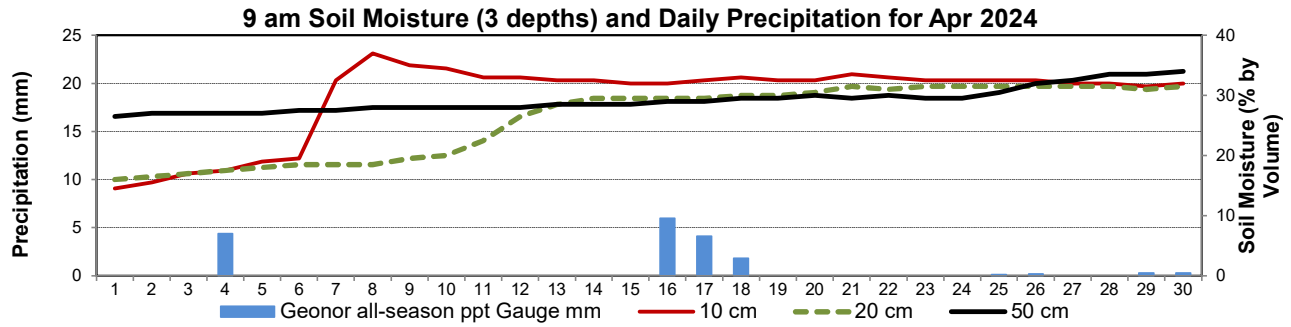
Saskatchewan 53.03°N 105.77°W 451m asl Estab. 2011

April 2024

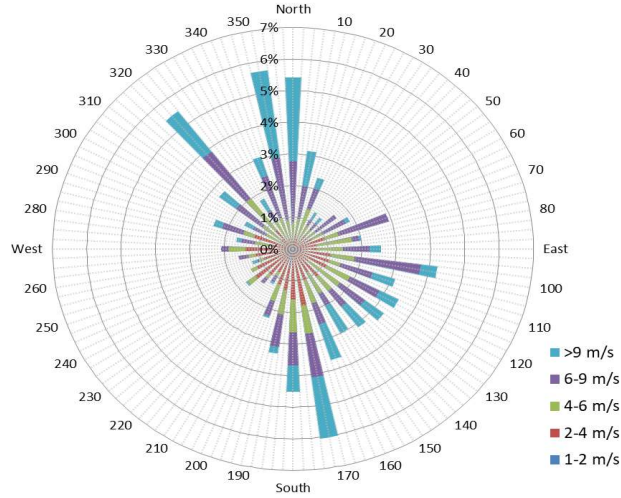
Day	2 meter Wind Speed			Soil Moisture at 0900 hrs (rounded to the 0.5%)																	
	Daily Average	Max ½ hr Avg	½ hr Extreme Max	10 cm	20 cm	50 cm															
	km/h	km/h	km/h	% by volume (soil type is Clay Loam)																	
1	14.0	22.0	33.5	14.5	16.0	26.5															
2	8.0	14.2	19.7	15.5	16.5	27.0															
3	16.0	21.0	32.3	17.0	17.0	27.0															
4	10.0	18.1	27.0	17.5	17.5	27.0															
5	14.0	20.2	30.0	19.0	18.0	27.0															
6	8.0	17.7	27.3	19.5	18.5	27.5															
7	3.0	8.4	16.4	32.5	18.5	27.5															
8	3.0	17.5	23.9	37.0	18.5	28.0															
9	5.0	16.1	26.2	35.0	19.5	28.0															
10	16.0	23.1	33.3	34.5	20.0	28.0															
11	6.0	13.0	19.9	33.0	22.5	28.0															
12	8.0	18.1	28.3	33.0	26.5	28.0															
13	8.0	23.0	37.7	32.5	28.5	28.5															
14	4.0	11.8	21.8	32.5	29.5	28.5															
15	12.0	22.3	34.1	32.0	29.5	28.5															
16	13.0	16.1	24.5	32.0	29.5	29.0															
17	21.0	29.6	41.6	32.5	29.5	29.0															
18	22.0	28.2	38.5	33.0	30.0	29.5															
19	14.0	20.4	29.5	32.5	30.0	29.5															
20	5.0	14.1	20.0	32.5	30.5	30.0															
21	6.0	14.9	27.3	33.5	31.5	29.5															
22	9.0	20.0	37.5	33.0	31.0	30.0															
23	5.0	17.3	25.8	32.5	31.5	29.5															
24	7.0	14.2	26.4	32.5	31.5	29.5															
25	11.0	24.0	36.0	32.5	31.5	30.5															
26	14.0	21.0	32.1	32.5	31.5	32.0															
27	10.0	14.0	24.8	32.0	31.5	32.5															
28	14.0	24.2	36.6	32.0	31.5	33.5															
29	12.0	24.6	44.0	31.5	31.0	33.5															
30	5.0	13.2	38.7	32.0	31.5	34.0															
Total																					
Mean				30	26	29.2															
Extreme	22.0	29.6	44.0	37	31.5	34															
Date	0	0	0	0	0	0															

SRC proudly recognizes the following CRS supporters:

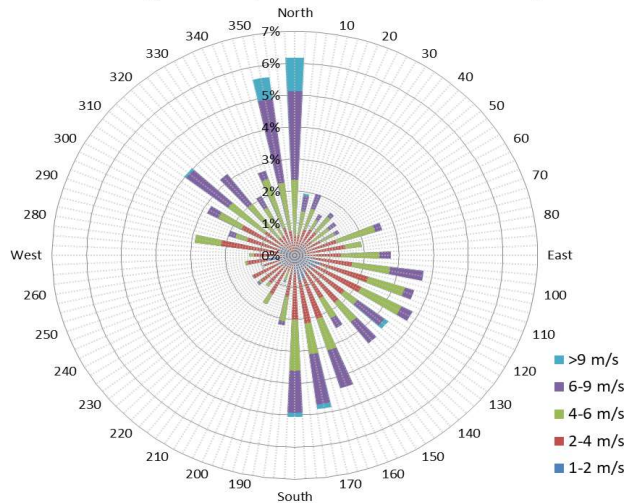




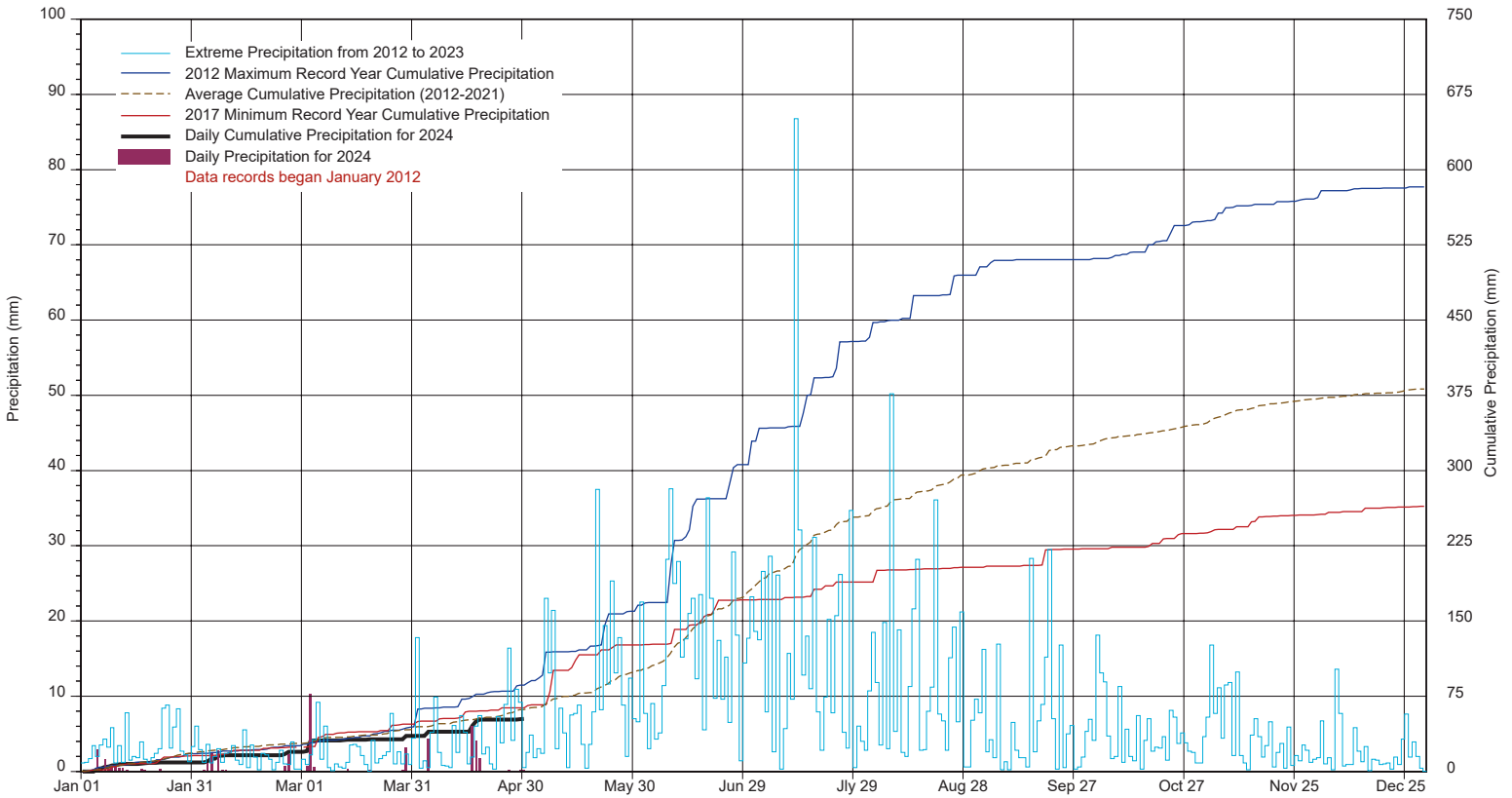
1/2 hr Maximum Wind Speed and Direction CLC April 2024



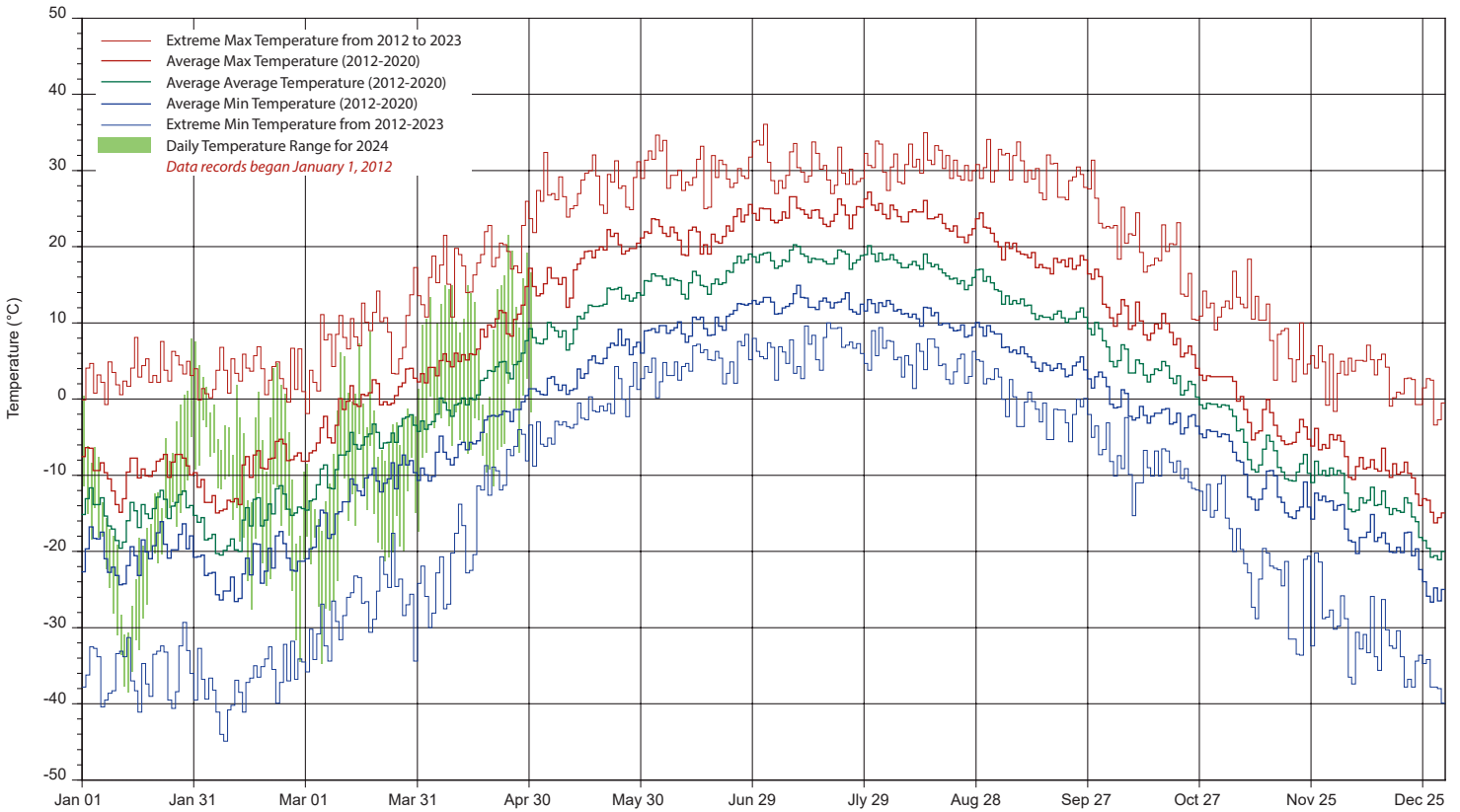
10 minute Average Wind Speed and Direction CLC April 2024



SRC's CLIMATE REFERENCE STATION at the Conservation Learning Centre 2024 PRECIPITATION AND AVERAGE



2024 TEMPERATURES AND AVERAGES



SRC proudly recognizes the following CRS supporters:

