



# SRC CLIMATE REFERENCE STATION DAILY DATA REPORT

## CONSERVATION LEARNING CENTRE

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

Preliminary **May 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	Tipping Bucket	Notes	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	mm		%	%	mbar	mbar
1	7.0	14.8	-2.6	1.4	2.2	8.1	0.0	15.8	0.0	6.8	6.0		97	70	1011	1007
2	3.9	13.6	-2.7	1.1	0.6	7.4	0.0	17.4	0.0	3.5	3.2		97	84	1013	1010
3	8.8	13.9	-2.1	0.7	3.4	7.3	0.0	14.6	0.0	2.7	2.8		97	56	1016	1012
4	9.4	15.2	-4.8	0.6	2.3	7.9	0.0	15.7	0.0	0.9	1.0		98	53	1016	1012
5	17.9	17.3	-6.6	2.8	5.7	10.1	0.7	12.3	0.0	0.0	0.0		98	28	1012	1005
6	16.1	15.9	4.6	3.0	10.4	9.5	5.4	7.6	0.0	4.7	5.4		94	45	1005	999
7	18.5	15.9	4.8	2.0	11.7	9.0	6.7	6.3	0.0	7.2	6.8		94	39	1007	997
8	20.8	15.1	4.1	1.2	12.5	8.2	7.5	5.5	0.0	0.0	0.0		75	30	1017	1008
9	20.3	16.0	3.1	1.9	11.7	9.0	6.7	6.3	0.0	0.0	0.0		76	18	1020	1017
10	25.6	12.1	1.1	0.7	13.4	6.5	8.4	4.6	0.0	0.0	0.0		67	17	1018	1003
11	19.8	13.3	4.6	1.2	12.2	7.3	7.2	5.8	0.0	0.0	0.0		57	13	1008	1001
12	15.9	17.0	-0.5	1.4	7.7	9.2	2.7	10.3	0.0	0.0	0.0		78	28	1013	1008
13	16.3	17.8	3.6	4.0	10.0	10.9	5.0	8.0	0.0	0.0	0.0		76	36	1012	1010
14	18.9	18.5	3.8	2.8	11.4	10.6	6.4	6.6	0.0	2.2	2.2		94	33	1013	1010
15	19.1	19.4	4.6	3.4	11.9	11.4	6.9	6.1	0.0	7.6	8.0		95	35	1010	1006
16	15.7	19.5	2.7	5.2	9.2	12.4	4.2	8.8	0.0	0.0	0.2		98	55	1006	999
17	14.6	18.6	5.6	5.7	10.1	12.2	5.1	7.9	0.0	15.5	15.6		96	71	999	994
18	11.2	19.6	2.8	4.8	7.0	12.2	2.0	11.0	0.0	0.1	0.0		89	51	1005	998
19	14.9	20.0	0.1	4.7	7.5	12.3	2.5	10.5	0.0	0.0	0.0		86	37	1010	1005
20	7.6	19.6	-0.2	5.4	3.7	12.5	0.0	14.3	0.0	0.4	0.4		98	79	1011	1010
21	7.0	22.3	2.4	6.8	4.7	14.6	0.0	13.3	0.0	15.4	15.4		97	89	1010	1009
22	8.7	21.4	-0.3	7.4	4.2	14.4	0.0	13.8	0.0	0.2	0.2		96	67	1013	1009
23	10.4	21.8	-1.4	7.1	4.5	14.5	0.0	13.5	0.0	1.7	1.6		98	58	1014	1013
24	13.6	20.3	-2.1	9.2	5.8	14.7	0.8	12.2	0.0	0.0	0.0		99	48	1013	1006
25	14.4	19.1	-2.7	7.1	5.9	13.2	0.9	12.1	0.0	0.0	0.0		97	38	1007	1004
26	16.9	19.5	3.7	7.9	10.3	13.7	5.3	7.7	0.0	0.0	0.0		88	32	1009	1005
27	19.2	19.8	-0.3	5.9	9.5	12.9	4.5	8.5	0.0	0.0	0.0		86	25	1019	1009
28	23.2	19.8	1.3	6.9	12.3	13.3	7.3	5.7	0.0	0.0	0.0		93	24	1020	1012
29	23.8	20.5	8.8	7.5	16.3	14.0	11.3	1.7	0.0	0.0	0.0		86	35	1011	1004
30	14.5	21.2	7.6	6.1	11.1	13.7	6.1	6.9	0.0	0.0	0.0		84	45	1004	1002
31	18.2	22.0	6.1	9.0	12.2	15.6	7.2	5.8	0.0	0.8	0.8		88	26	1005	1002
Total							120.8	296.6	0.0	69.7	69.6					
Avg	15.2	18.1	1.6	4.4	8.4	11.3	Monthly 2012 - 2021 Average			38.3	2012-2021 Average					
Extreme	25.6	32.4	-6.6	-8.8			199.3	211.2	3.5	122.4	2024 Cumulative ppt		99	13	1020	994
Date	10	2016	5	2019						99.7	Cumulative Average		24	11	9	17

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

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

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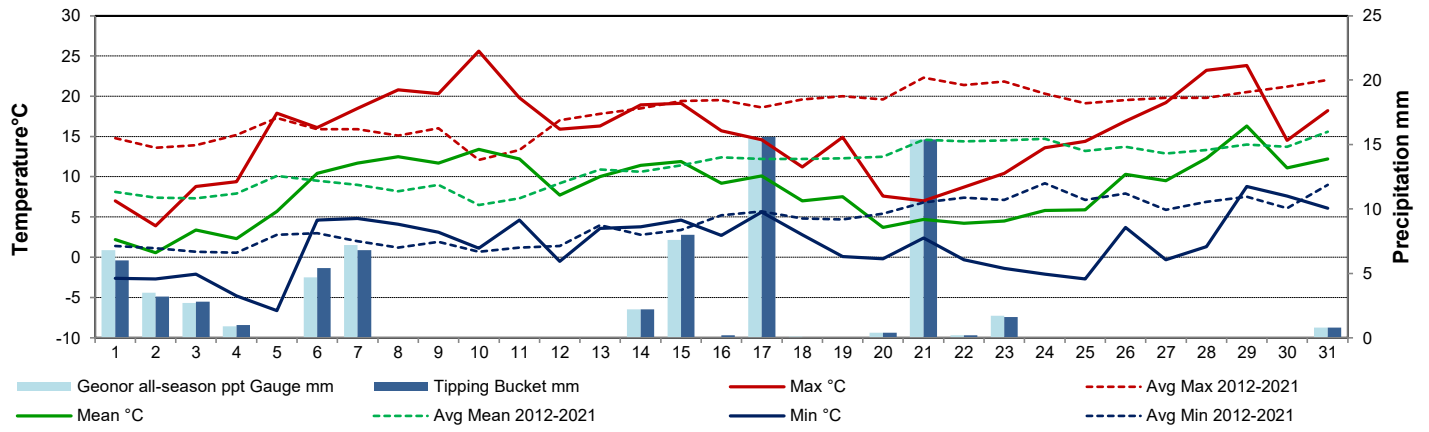
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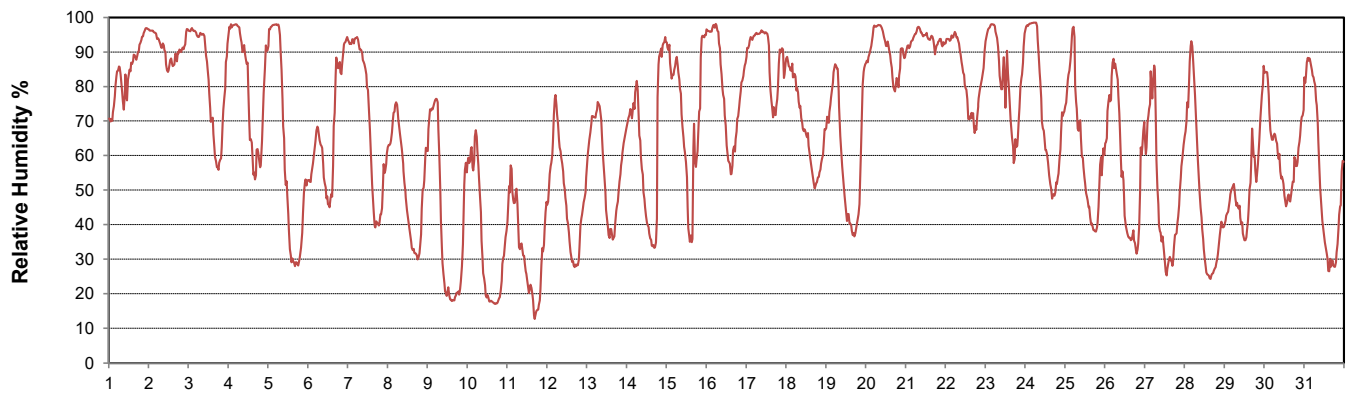


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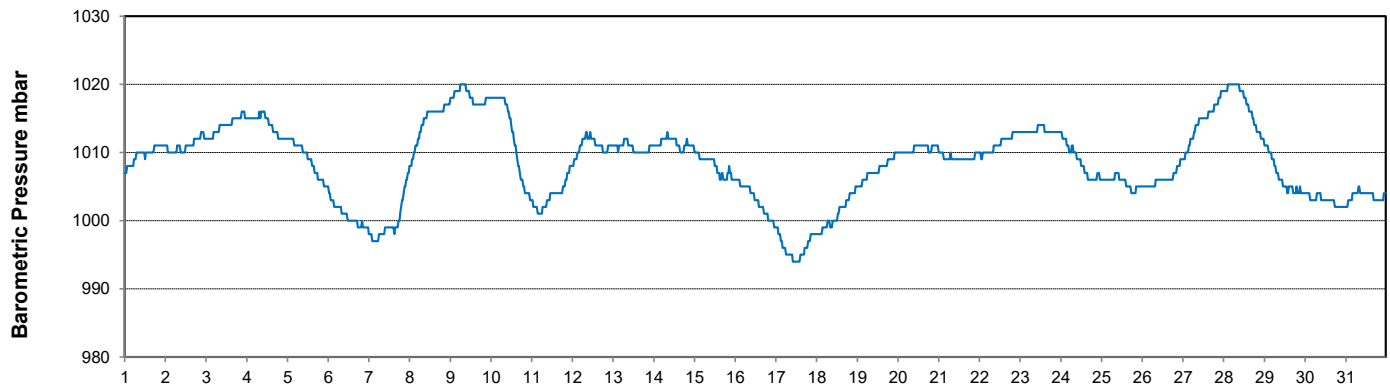
### Temperature and Precipitation for May 2024



### Relative Humidity for May 2024



### Barometric Pressure Corrected to Sea Level for May 2024





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## CONSERVATION LEARNING CENTRE

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

Preliminary

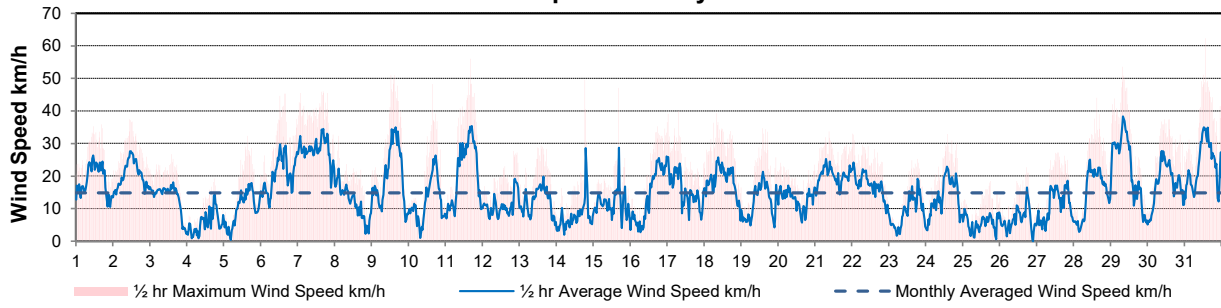
May 2024

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	Diffuse
	km/h			km/h	°C	°C	°C	°C	°C	°C	°C	°C	hours	hours		MJ/m <sup>2</sup>	MJ/m <sup>2</sup>
1	35.9	NE	16:14	18.4	3.5	4.0	4.0	3.5	2.5	-0.5	0.0	2.5	1.1	15.1	7.3	9.0	7.9
2	37.4	NE	10:58	20.5	0.5	2.0	2.0	2.0	2.0	-0.5	0.0	2.0	1.0	15.1	6.6	11.5	10.0
3	26.6	NNE	13:55	13.3	3.5	2.5	2.5	2.0	2.0	-0.5	0.0	2.0	2.9	15.2	19.1	12.4	10.6
4	19.2	S	17:33	5.9	5.0	2.0	2.0	2.5	2.0	-0.5	0.0	2.5	3.1	15.3	20.3	11.5	8.9
5	32.3	ESE	15:27	10.2	8.5	2.0	2.0	2.5	2.0	-0.5	0.0	2.5	12.8	15.3	83.6	24.4	6.5
6	45.3	SE	15:24	20.5	11.0	5.5	5.0	4.0	2.5	-0.5	0.0	2.5	0.6	15.4	3.9	5.7	5.0
7	45.9	ENE	16:02	27.8	8.0	6.0	5.5	4.5	2.5	-0.5	0.0	2.0	2.0	15.4	13.0	10.1	8.4
8	32.3	ENE	2:10	11.7	11.0	6.0	5.5	5.0	3.0	-0.5	0.0	2.5	14.9	15.5	96.2	26.0	3.7
9	51.0	NW	14:43	20.0	16.5	8.0	7.5	6.0	3.5	-0.5	0.0	2.5	14.1	15.6	90.7	26.9	3.5
10	48.2	WNW	15:08	12.6	15.0	6.5	6.0	6.0	4.5	-0.5	0.0	2.5	13.0	15.6	83.3	25.6	5.1
11	55.9	NW	15:43	21.2	19.0	8.0	7.5	6.5	5.0	0.0	0.0	2.5	14.4	15.7	92.0	22.7	8.9
12	27.6	E	19:55	10.9	9.0	6.5	6.5	6.0	5.0	0.0	0.0	2.5	11.9	15.7	75.7	24.4	5.2
13	29.3	S	13:48	12.2	10.0	7.5	7.5	6.5	5.0	0.0	0.0	2.5	7.5	15.8	47.6	19.4	8.8
14	49.5	NW	18:26	7.8	12.0	8.0	8.0	7.0	5.5	0.0	0.0	2.5	11.0	15.8	69.5	22.1	8.3
15	47.0	NW	16:06	11.7	13.5	8.5	8.5	7.5	5.5	0.0	0.0	2.5	5.6	15.9	35.3	14.3	10.2
16	36.5	E	23:31	14.2	11.0	8.5	8.5	7.5	6.0	0.0	0.0	2.5	9.4	15.9	59.0	19.4	10.1
17	39.9	ESE	7:28	15.4	9.0	8.5	8.5	7.5	6.0	0.0	0.0	2.0	1.9	16.0	11.9	8.4	5.8
18	39.3	WNW	7:57	18.6	9.0	8.0	8.0	7.5	6.0	0.0	0.0	2.0	1.1	16.0	6.9	11.8	10.0
19	34.7	WSW	13:32	12.1	10.0	6.5	6.5	6.5	6.0	0.0	0.0	2.5	13.0	16.1	80.8	24.5	7.1
20	24.0	E	1:05	13.1	3.5	7.0	7.5	7.0	6.0	0.5	0.0	2.5	0.6	16.1	3.7	5.1	4.4
21	33.7	ENE	8:59	20.3	6.0	6.0	6.5	6.0	5.5	0.0	0.0	2.0	0.0	16.2	0.0	4.0	3.5
22	32.9	NE	0:05	16.9	6.5	5.5	5.5	5.5	5.0	0.0	-0.5	1.5	3.4	16.2	21.0	12.5	9.2
23	25.3	ESE	18:19	8.8	7.0	5.5	6.0	5.5	5.0	1.0	0.0	2.5	4.0	16.3	24.6	13.5	9.9
24	32.9	E	13:55	13.6	8.5	5.5	5.5	5.5	5.0	1.0	0.0	2.0	4.6	16.3	28.2	16.2	10.8
25	18.4	NE	17:51	5.5	7.5	6.5	6.5	6.0	5.0	1.0	0.5	2.5	6.6	16.4	40.4	17.4	11.1
26	22.7	NNE	17:02	6.6	10.0	7.5	7.5	6.5	5.0	1.5	0.5	2.5	7.3	16.4	44.5	19.3	9.7
27	27.1	NNW	13:29	11.2	13.5	7.5	7.5	7.0	5.5	1.5	0.5	2.5	13.8	16.4	84.0	26.9	6.1
28	44.0	SSE	14:49	14.9	15.5	8.5	8.5	7.5	6.0	2.0	1.0	2.5	14.2	16.5	86.2	27.1	7.1
29	53.5	S	7:55	22.4	19.5	10.5	10.5	9.0	6.5	2.5	1.0	2.5	9.0	16.5	54.5	17.6	8.4
30	37.4	NW	10:47	17.9	14.0	10.5	10.5	9.0	7.5	3.0	1.5	2.5	1.7	16.6	10.3	12.5	10.3
31	62.2	WSW	13:02	23.7	13.5	9.5	9.5	8.5	7.5	3.5	1.5	2.5	9.4	16.6	56.7	22.1	8.5
Total													215.9	492.7	43.8	524.3	243.0
Mean				14.8	10.0	6.6	6.5	5.9	4.7	0.4	0.2	2.4					
Extreme	62.2	WSW	13:02														
Date	31																

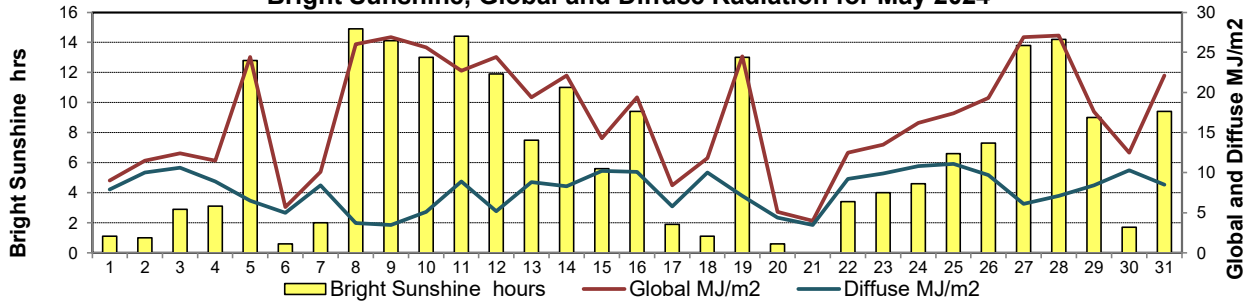
### GLOSSARY OF TERMS

<b>Degree-days</b>	<b>Radiation</b>
T <sub>m</sub> 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 <sub>m</sub> -5°C); if T <sub>m</sub> ≤ 5°C then GDD = 0	
Heating (18°C-T <sub>m</sub> ); if T <sub>m</sub> ≥ 18°C then HDD = 0	
Cooling (T <sub>m</sub> -18°C); if T <sub>m</sub> ≤ 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	
<b>Red Cell</b> no data available	<b>Relative Humidity</b> The ratio of the air's water vapour content of its water vapour capacity which changes with temperature.
Red Number manual calculation	<b>Air Pressure</b> The force exerted by the weight of a column of air above a given point
	<b>Wind Gust</b> The daily highest instantaneous value recorded irrespective of direction and/or duration

### Wind Speed for May 2024

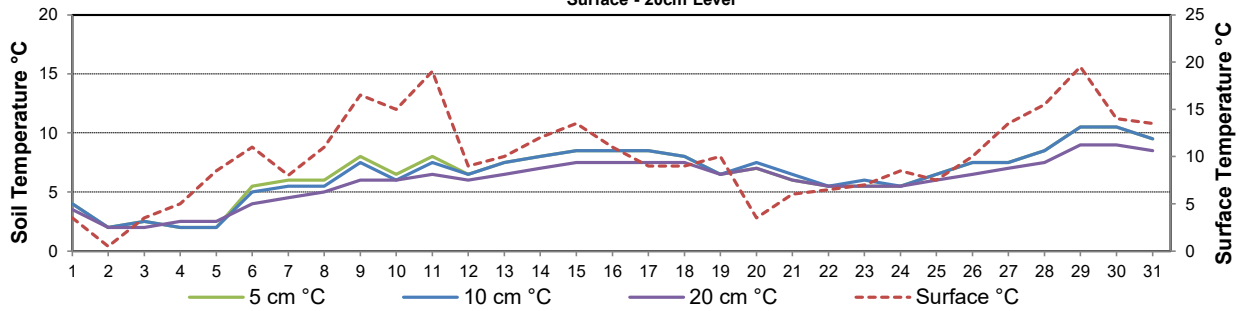


### Bright Sunshine, Global and Diffuse Radiation for May 2024



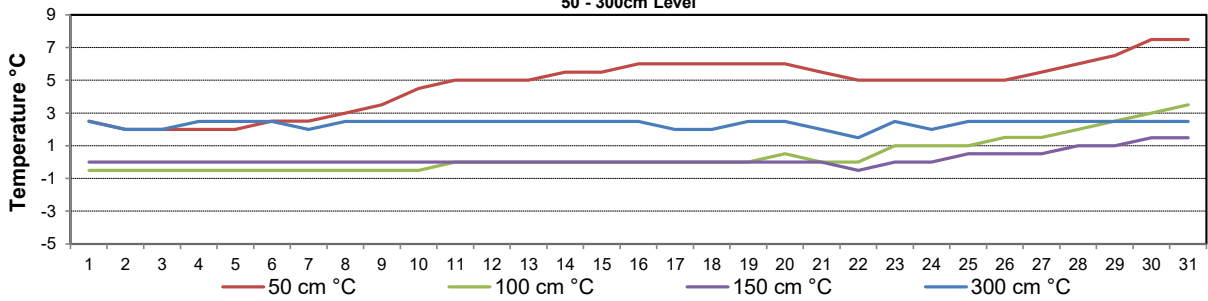
### 9 am Soil Temperatures for May 2024

Surface - 20cm Level



### 9 am Soil Temperatures for May 2024

50 - 300cm Level





# SRC CLIMATE REFERENCE STATION DAILY DATA REPORT

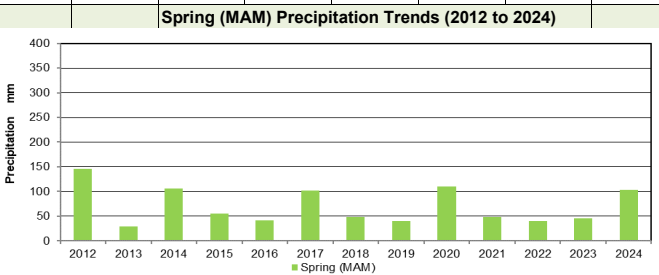
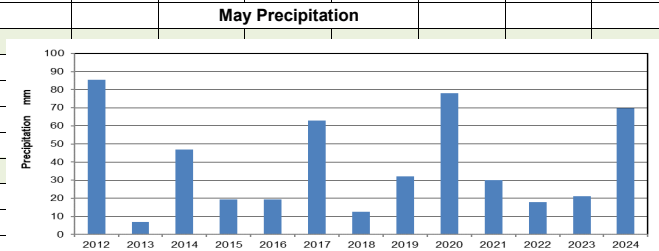
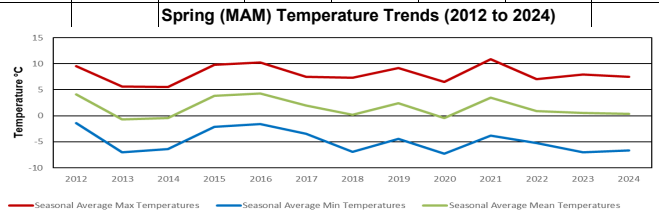
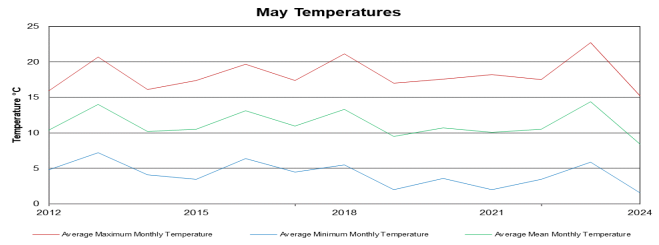
## CONSERVATION LEARNING CENTRE

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

Preliminary

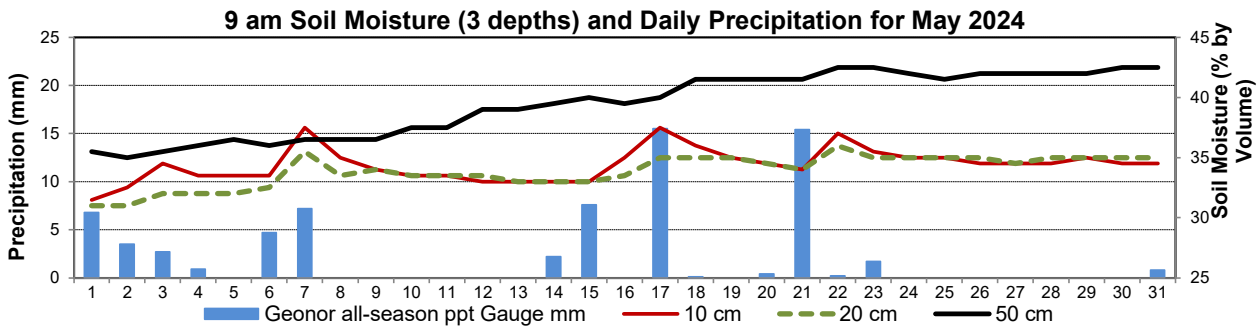
May 2024

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	20.6	27.5	31.5	31.0	35.5
2	15.0	20.0	31.4	32.5	31.0	35.0
3	10.0	14.8	25.0	34.5	32.0	35.5
4	3.0	11.8	16.6	33.5	32.0	36.0
5	6.0	12.5	29.6	33.5	32.0	36.5
6	15.0	21.6	32.7	33.5	32.5	36.0
7	22.0	26.8	38.7	37.5	35.5	36.5
8	8.0	17.0	23.9	35.0	33.5	36.5
9	14.0	25.9	38.3	34.0	34.0	36.5
10	7.0	20.2	35.2	33.5	33.5	37.5
11	15.0	26.2	42.3	33.5	33.5	37.5
12	7.0	13.7	23.3	33.0	33.5	39.0
13	8.0	14.4	22.5	33.0	33.0	39.0
14	4.0	21.4	33.5	33.0	33.0	39.5
15	8.0	21.8	34.6	33.0	33.0	40.0
16	10.0	20.1	29.1	35.0	33.5	39.5
17	12.0	20.1	30.8	37.5	35.0	40.0
18	14.0	20.0	28.7	36.0	35.0	41.5
19	8.0	16.7	34.3	35.0	35.0	41.5
20	10.0	13.9	19.3	34.5	34.5	41.5
21	15.0	19.7	27.7	34.0	34.0	41.5
22	13.0	17.6	25.2	37.0	36.0	42.5
23	5.0	15.5	20.8	35.5	35.0	42.5
24	10.0	18.0	25.2	35.0	35.0	42.0
25	3.0	7.6	17.6	35.0	35.0	41.5
26	3.0	11.8	18.1	34.5	35.0	42.0
27	7.0	14.4	23.7	34.5	34.5	42.0
28	9.0	19.8	31.4	34.5	35.0	42.0
29	17.0	28.9	43.7	35.0	35.0	42.0
30	13.0	21.4	30.4	34.5	35.0	42.5
31	18.0	10.0	49.0	34.5	35.0	42.5
Total						
Mean				34	34	39.5
Extreme	22.0	28.9	49.0	37.5	36	42.5
Date	New Record	0	0	New Record	0	0

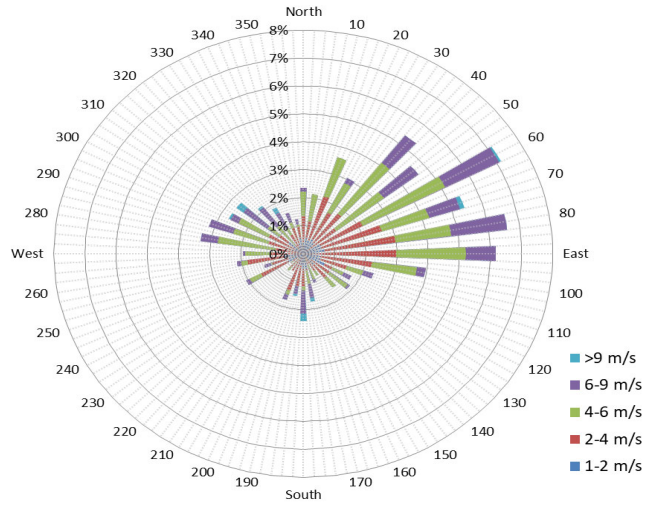


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10 minute Average Wind Speed and Direction CLC May 2024



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

