



SRC CLIMATE REFERENCE STATION DAILY DATA REPORT

CONSERVATION LEARNING CENTRE

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

Preliminary

May 2025

Day	Temperature (HMP155A)						Degree-days			Precipitation			Relative Humidity (HMP115A)		Station Pressure corrected to sea level	
	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	9.9	14.8	-1.5	1.4	4.2	8.1	0.0	13.8	0.0	0.3	0.0		93	50	1019	1012
2	26.3	13.6	-2.5	1.1	11.9	7.4	6.9	6.1	0.0	0.0	0.0		86	12	1015	1003
3	28.9	13.9	-1.0	0.7	14.0	7.3	9.0	4.0	0.0	0.0	0.0		86	10	1007	1001
4	22.2	15.2	7.8	0.6	15.0	7.9	10.0	3.0	0.0	0.0	0.0		65	27	1010	1000
5	16.8	17.3	0.2	2.8	8.5	10.1	3.5	9.5	0.0	0.0	0.0		77	17	1023	1011
6	16.0	15.9	-7.6	3.0	4.2	9.5	0.0	13.8	0.0	0.0	0.0		94	13	1028	1022
7	23.7	15.9	2.5	2.0	13.1	9.0	8.1	4.9	0.0	0.0	0.0		44	20	1022	1006
8	27.8	15.1	2.8	1.2	15.3	8.2	10.3	2.7	0.0	0.0	0.0		74	15	1020	1002
9	18.7	16.0	-3.9	1.9	7.4	9.0	2.4	10.6	0.0	0.0	0.0		97	19	1025	1019
10	22.8	12.1	7.2	0.7	15.0	6.5	10.0	3.0	0.0	0.0	0.0		49	18	1018	1008
11	22.4	13.3	5.6	1.2	14.0	7.3	9.0	4.0	0.0	0.0	0.0		66	29	1008	1002
12	24.7	17.0	0.4	1.4	12.6	9.2	7.6	5.4	0.0	0.0	0.0		92	24	1002	992
13	18.2	17.8	4.4	4.0	11.3	10.9	6.3	6.7	0.0	0.1	0.0		88	29	1009	996
14	16.6	18.5	-1.4	2.8	7.6	10.6	2.6	10.4	0.0	0.0	0.0		92	28	1012	1008
15	14.4	19.4	3.2	3.4	8.8	11.4	3.8	9.2	0.0	0.0	0.0		74	35	1009	1006
16	12.1	19.5	1.1	5.2	6.6	12.4	1.6	11.4	0.0	0.0	0.0		88	39	1014	1008
17	14.2	18.6	-4.4	5.7	4.9	12.2	0.0	13.1	0.0	0.1	0.0		85	23	1016	1014
18	12.9	19.6	-5.8	4.8	3.6	12.2	0.0	14.4	0.0	0.0	0.0		91	31	1018	1015
19	11.1	20.0	0.4	4.7	5.8	12.3	0.8	12.2	0.0	0.4	0.2		92	41	1019	1015
20	15.5	19.6	2.0	5.4	8.8	12.5	3.8	9.2	0.0	0.1	0.2		97	23	1017	1014
21	13.9	22.3	0.4	6.8	7.2	14.6	2.2	10.8	0.0	1.3	1.6		93	37	1021	1017
22	15.8	21.4	2.4	7.4	9.1	14.4	4.1	8.9	0.0	0.0	0.2		94	42	1022	1019
23	22.7	21.8	-2.6	7.1	10.1	14.5	5.1	7.9	0.0	0.0	0.0		96	16	1020	1018
24	23.6	20.3	1.2	9.2	12.4	14.7	7.4	5.6	0.0	0.0	0.0		73	13	1022	1019
25	24.7	19.1	1.0	7.1	12.9	13.2	7.9	5.1	0.0	0.0	0.0		76	15	1023	1018
26	25.5	19.5	5.6	7.9	15.6	13.7	10.6	2.4	0.0	0.0	0.0		64	17	1019	1014
27	27.5	19.8	6.9	5.9	17.2	12.9	12.2	0.8	0.0	0.0	0.0		64	22	1015	1012
28	29.3	19.8	9.1	6.9	19.2	13.3	14.2	0.0	1.2	0.0	0.0		67	21	1017	1014
29	31.0	20.5	9.0	7.5	20.0	14.0	15.0	0.0	2.0	0.0	0.0		71	19	1014	1008
30	20.8	21.2	8.2	6.1	14.5	13.7	9.5	3.5	0.0	0.0	0.0		74	37	1016	1008
31	27.4	22.0	2.3	9.0	14.9	15.6	9.9	3.1	0.0	0.0	0.0		98	14	1017	1004
Total							193.8	215.5	3.2	2.3	2.2					
Avg	20.6	18.1	1.7	4.4	11.2	11.3	Monthly 2012 - 2021 Average			38.3	2012-2021 Average					
Extreme	31.0	32.4	-7.6	-8.8			199.3	211.2	3.5	28.2	2025 Cumulative ppt		98	10	1028	992
Date	29	2016	6	2019						99.7	Cumulative Average		31	3	6	12

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

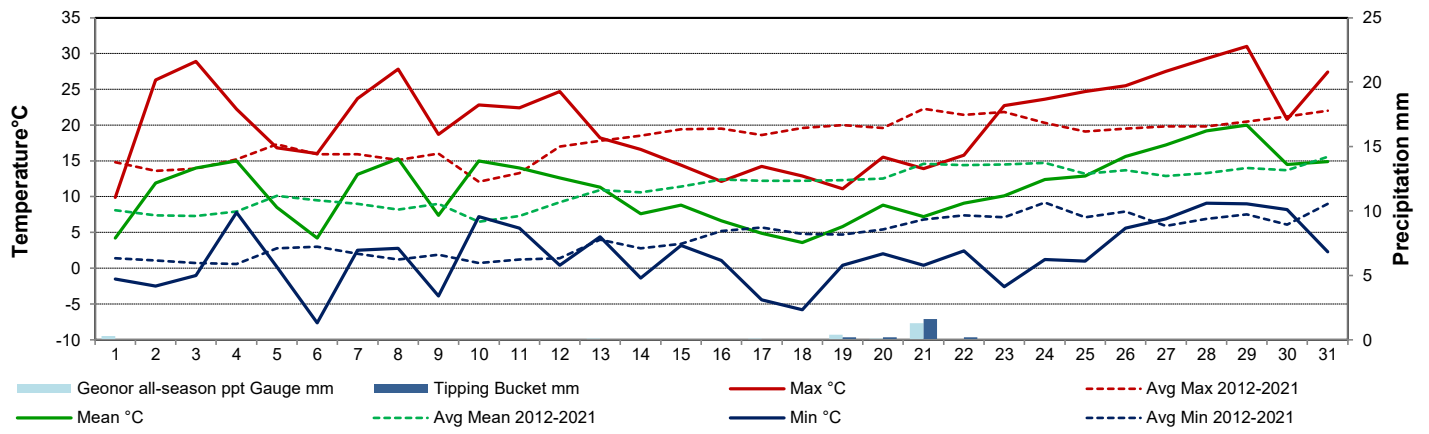
Spring Maintenance: May 2, 2025

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

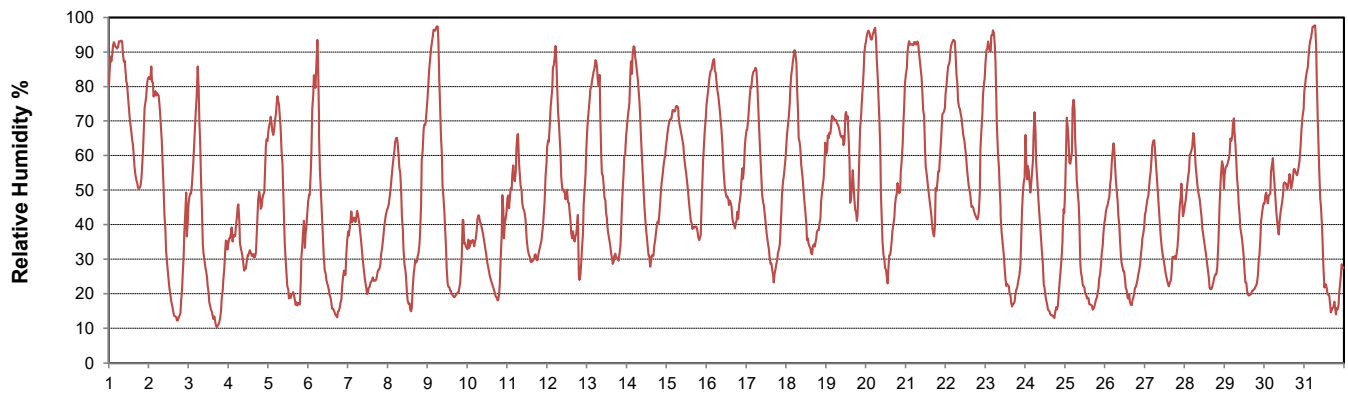
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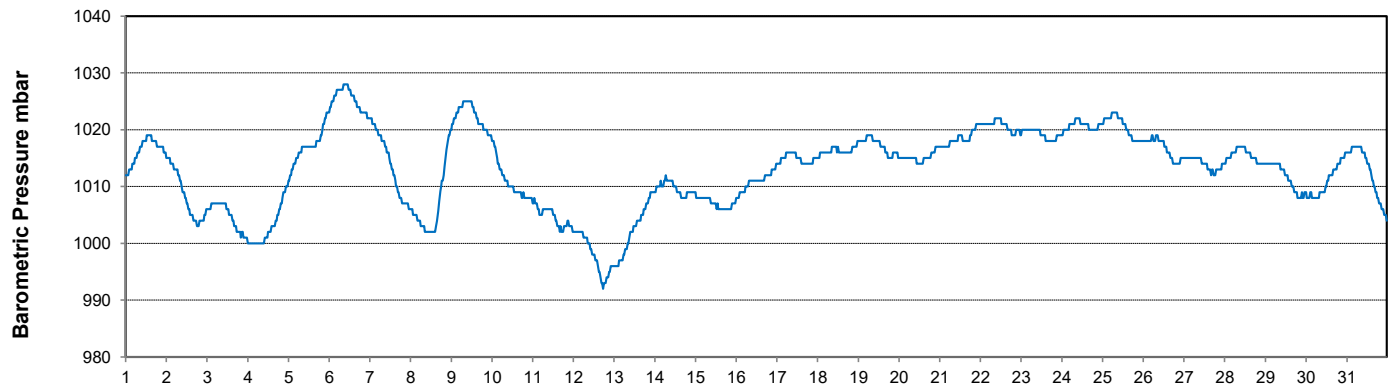
Temperature and Precipitation for May 2025



Relative Humidity for May 2025



Barometric Pressure Corrected to Sea Level for May 2025





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CONSERVATION LEARNING CENTRE

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

Preliminary

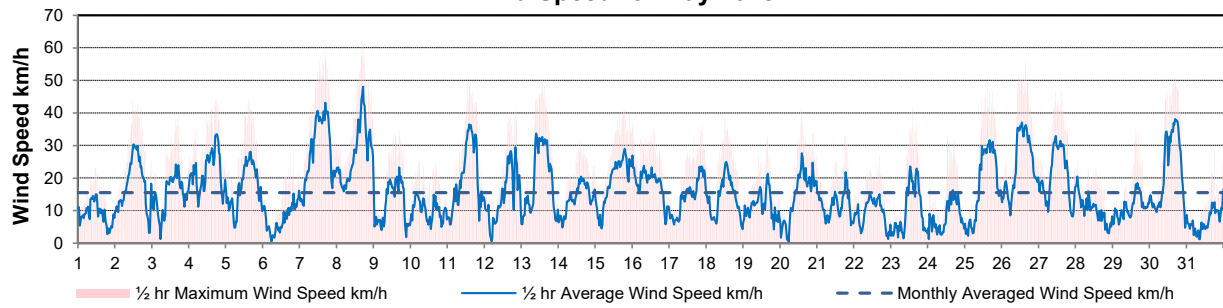
May 2025

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 ²	MJ/m ²
1	23.2	ENE	10:59	9.1	5.5	6.0	6.0	5.5	3.5	1.5	1.0	3.0	5.2	15.1	34.6	13.1	8.2
2	44.0	WSW	11:18	18.1	11.0	4.5	4.5	4.5	3.5	1.5	1.5	3.0	11.6	15.1	76.7	22.7	6.8
3	38.1	S	16:15	15.1	17.0	6.5	6.5	6.0	4.0	2.0	1.5	3.0	14.5	15.2	95.5	25.0	4.1
4	44.1	NW	17:02	22.1	21.0	9.0	8.5	7.5	5.0	2.5	1.5	3.0	12.1	15.2	79.4	22.8	5.7
5	44.5	NW	14:55	17.5	10.5	9.0	9.0	8.0	5.5	2.5	2.0	3.0	12.9	15.3	84.3	24.8	5.6
6	27.8	S	17:32	7.4	8.0	6.5	7.0	7.5	6.0	3.0	2.0	3.0	14.9	15.4	97.0	26.6	3.5
7	58.5	SSW	16:05	28.6	14.5	8.0	8.0	8.0	6.0	3.5	2.0	3.0	14.3	15.4	92.7	25.7	4.3
8	62.0	NW	16:23	27.8	18.5	10.0	10.0	9.0	6.5	3.5	2.5	3.0	13.8	15.5	89.1	24.8	5.5
9	34.6	WSW	16:00	12.1	12.5	8.5	9.0	9.0	7.0	4.0	2.5	3.0	12.7	15.5	81.8	22.2	8.4
10	25.7	SSE	5:19	9.7	14.5	9.5	10.0	9.0	7.0	4.5	2.5	3.0	12.0	15.6	77.0	24.5	5.6
11	49.9	E	12:49	20.7	15.0	10.5	11.0	10.0	7.5	4.5	3.0	3.0	8.5	15.7	54.3	19.0	10.3
12	40.9	WSW	19:51	14.3	16.0	10.5	10.5	10.0	8.0	5.0	3.0	3.0	7.4	15.7	47.1	14.3	8.1
13	50.5	N	13:09	19.6	13.5	11.0	11.5	10.0	8.0	5.0	3.0	3.0	12.0	15.8	76.1	24.2	6.2
14	31.6	ENE	14:04	14.1	9.5	9.0	10.0	10.0	8.5	5.5	3.5	3.0	12.9	15.8	81.6	22.8	8.0
15	40.8	NNE	18:33	19.2	8.0	10.0	11.0	10.0	8.5	5.5	3.5	3.0	3.7	15.9	23.3	13.2	10.4
16	36.6	N	0:28	17.9	8.5	9.5	10.0	9.5	8.5	5.5	4.0	3.0	4.1	15.9	25.8	15.9	11.8
17	36.3	E	21:09	14.5	8.5	7.5	8.5	9.0	8.0	6.0	4.0	3.0	12.9	16.0	80.8	26.7	6.1
18	38.3	ESE	11:57	13.8	8.0	8.0	9.0	9.0	8.0	6.0	4.0	3.0	12.6	16.0	78.7	26.1	5.7
19	33.3	ESE	15:22	11.6	7.5	9.0	9.5	9.0	8.0	6.0	4.0	3.0	0.2	16.1	1.2	8.1	7.2
20	41.5	ESE	13:45	14.7	11.5	9.0	9.5	8.5	8.0	6.0	4.5	3.0	3.8	16.1	23.6	13.4	10.3
21	32.9	SSE	18:02	11.6	7.5	8.5	9.5	8.5	8.0	6.0	4.5	3.0	4.5	16.2	27.8	15.7	10.2
22	27.0	S	16:01	9.3	9.5	9.5	10.0	9.0	8.0	6.0	4.5	3.5	6.2	16.2	38.2	16.4	10.0
23	42.0	SSE	13:48	10.2	15.5	8.5	9.0	9.0	8.0	6.0	4.5	3.5	12.7	16.3	78.1	26.9	7.7
24	32.1	ESE	12:48	8.0	15.5	9.5	10.0	9.5	8.5	6.5	5.0	3.5	14.8	16.3	90.8	26.8	6.1
25	49.8	S	14:34	17.9	20.0	10.5	11.0	10.0	9.0	6.5	5.0	3.5	15.5	16.3	94.9	28.6	4.9
26	55.7	S	15:17	24.0	20.5	11.5	12.5	11.0	9.0	6.5	5.0	3.5	14.4	16.4	87.9	26.1	7.7
27	46.6	S	10:43	20.8	20.5	12.5	13.0	11.5	9.5	6.5	5.0	3.5	14.8	16.4	90.1	28.0	4.7
28	25.8	S	0:41	9.9	21.5	13.5	14.5	12.5	10.0	7.0	5.0	3.5	14.5	16.5	88.1	26.7	6.2
29	34.9	WSW	14:45	11.5	22.0	14.5	15.0	13.5	10.5	7.0	5.0	3.5	14.6	16.5	88.5	25.3	8.0
30	50.5	NW	16:11	21.9	22.0	14.5	15.5	13.5	11.5	7.5	5.5	3.5	11.2	16.5	67.7	17.2	10.2
31	29.1	E	17:31	7.1	16.0	12.5	14.0	13.0	11.5	7.5	5.5	3.5	10.8	16.6	65.2	23.0	8.9
Total													336.1	492.3	68.3	676.6	226.4
Mean				15.5	13.9	9.6	10.1	9.4	7.7	5.0	3.5	3.2					
Extreme	62.0	NW	16:23														
Date	8																

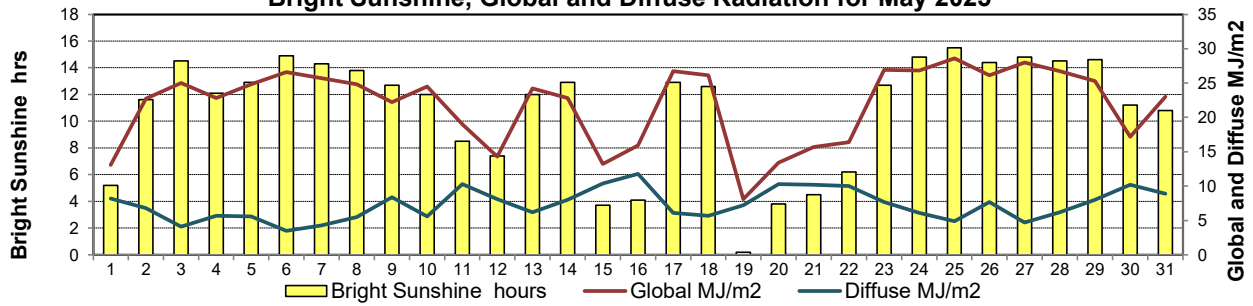
GLOSSARY OF TERMS

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	
Heating (18°C-Tm); if Tm ≥ 18°C then HDD = 0	
Cooling (Tm-18°C); if Tm ≤ 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 May 2025

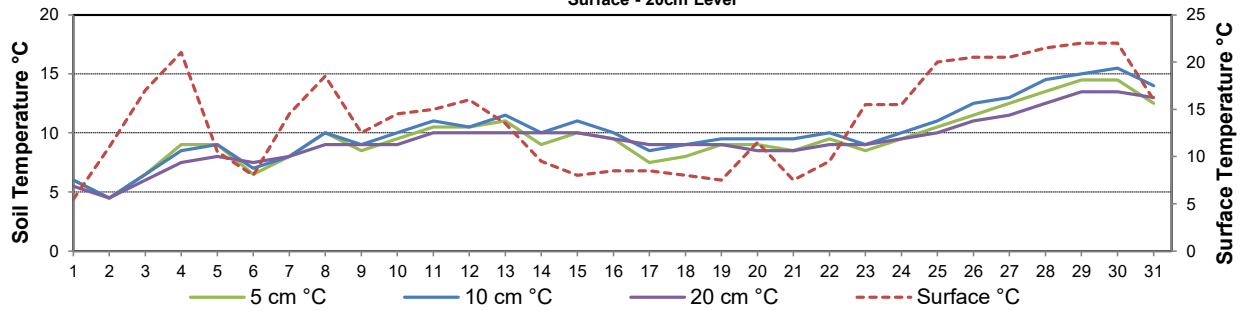


Bright Sunshine, Global and Diffuse Radiation for May 2025



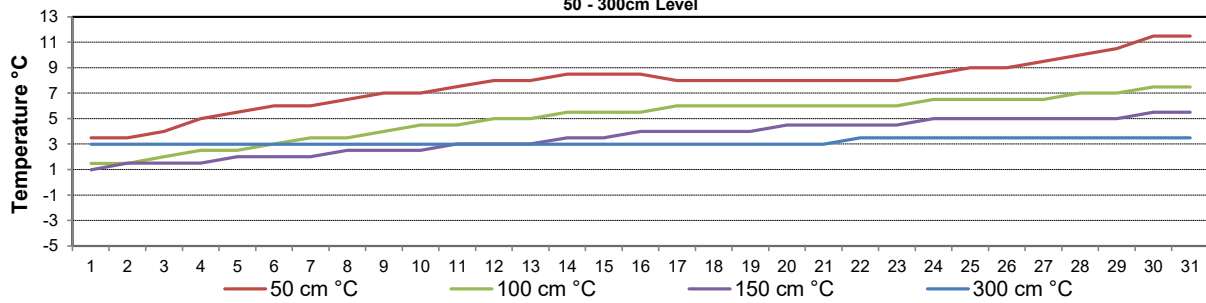
9 am Soil Temperatures for May 2025

Surface - 20cm Level



9 am Soil Temperatures for May 2025

50 - 300cm Level





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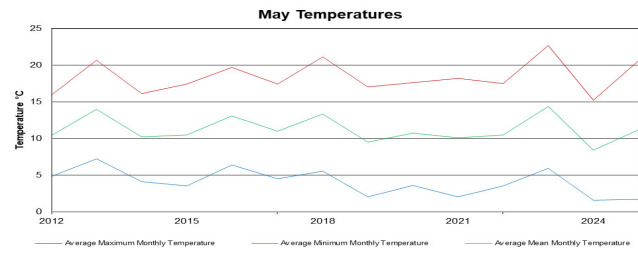
CONSERVATION LEARNING CENTRE

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

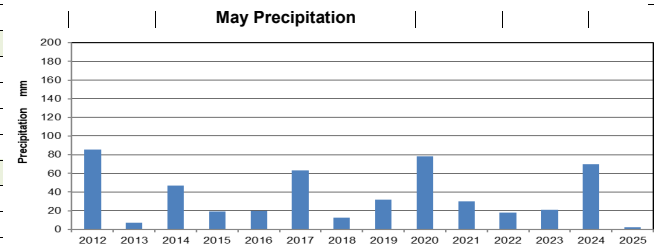
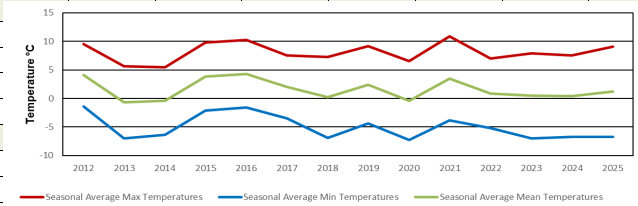
Preliminary

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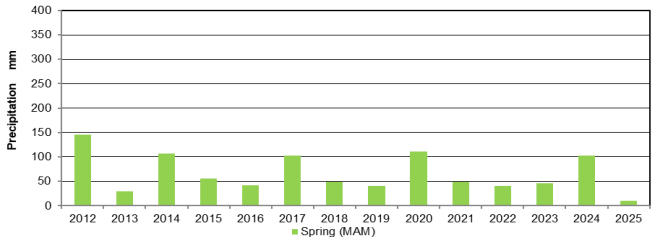
Day	2 meter Wind Speed			Soil Moisture at 0900 hrs (rounded to the 0.5%)		
	Daily Average	Max ½ hr Avg	½ hr Extreme Max	10 cm	20 cm	50 cm
	km/h	km/h	km/h	% by volume (soil type is Clay Loam)		
1	5.0	11.2	18.1	2.5	34.5	42.5
2	12.0	25.2	34.8	2.5	34.5	42.5
3	9.0	19.6	29.8	2.5	35.0	43.5
4	16.0	25.5	35.2	3.0	35.0	43.5
5	12.0	22.1	36.2	3.0	35.0	43.0
6	3.0	10.5	22.4	2.5	35.0	43.5
7	21.0	33.2	51.9	2.5	35.0	44.0
8	21.0	36.4	48.1	3.0	35.0	44.0
9	8.0	19.3	29.3	2.5	35.0	44.0
10	4.0	9.0	22.2	2.5	35.0	44.0
11	14.0	28.2	39.6	2.5	35.0	43.5
12	9.0	22.7	34.3	2.5	35.0	43.5
13	13.0	25.8	38.3	2.5	35.0	44.0
14	10.0	16.1	25.6	2.5	35.0	44.0
15	13.0	21.2	31.4	2.5	35.0	44.0
16	13.0	18.2	27.5	2.5	35.0	44.0
17	9.0	17.9	29.3	2.5	34.5	43.5
18	8.0	17.7	27.5	2.5	34.5	43.5
19	6.0	13.1	24.5	2.5	34.5	43.5
20	9.0	19.9	30.6	2.5	34.5	43.5
21	7.0	14.7	25.6	2.5	34.5	43.5
22	6.0	12.5	23.3	2.5	34.5	44.0
23	5.0	18.9	35.0	2.5	34.5	44.0
24	3.0	11.7	26.4	2.5	34.5	44.0
25	13.0	24.7	39.6	2.5	35.0	44.0
26	18.0	29.0	42.1	2.5	34.5	44.0
27	15.0	26.1	36.4	2.5	34.5	44.0
28	6.0	14.5	21.8	2.5	34.5	44.0
29	5.0	15.3	28.5	3.0	34.0	44.5
30	15.0	29.5	41.4	2.5	34.5	44.5
31	3.0	15.0	23.0	2.5	34.5	44.5
Total						
Mean				3	35	43.8
Extreme	21.0	36.4	51.9	3	35	44.5
Date	New Record	0	New Record	0	0	0



Spring (MAM) Temperature Trends (2012 to 2025)

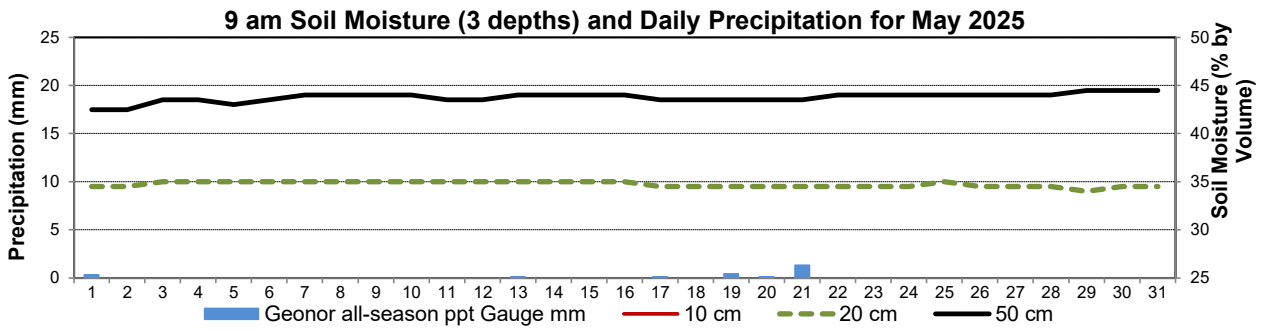


Spring (MAM) Precipitation Trends (2012 to 2025)

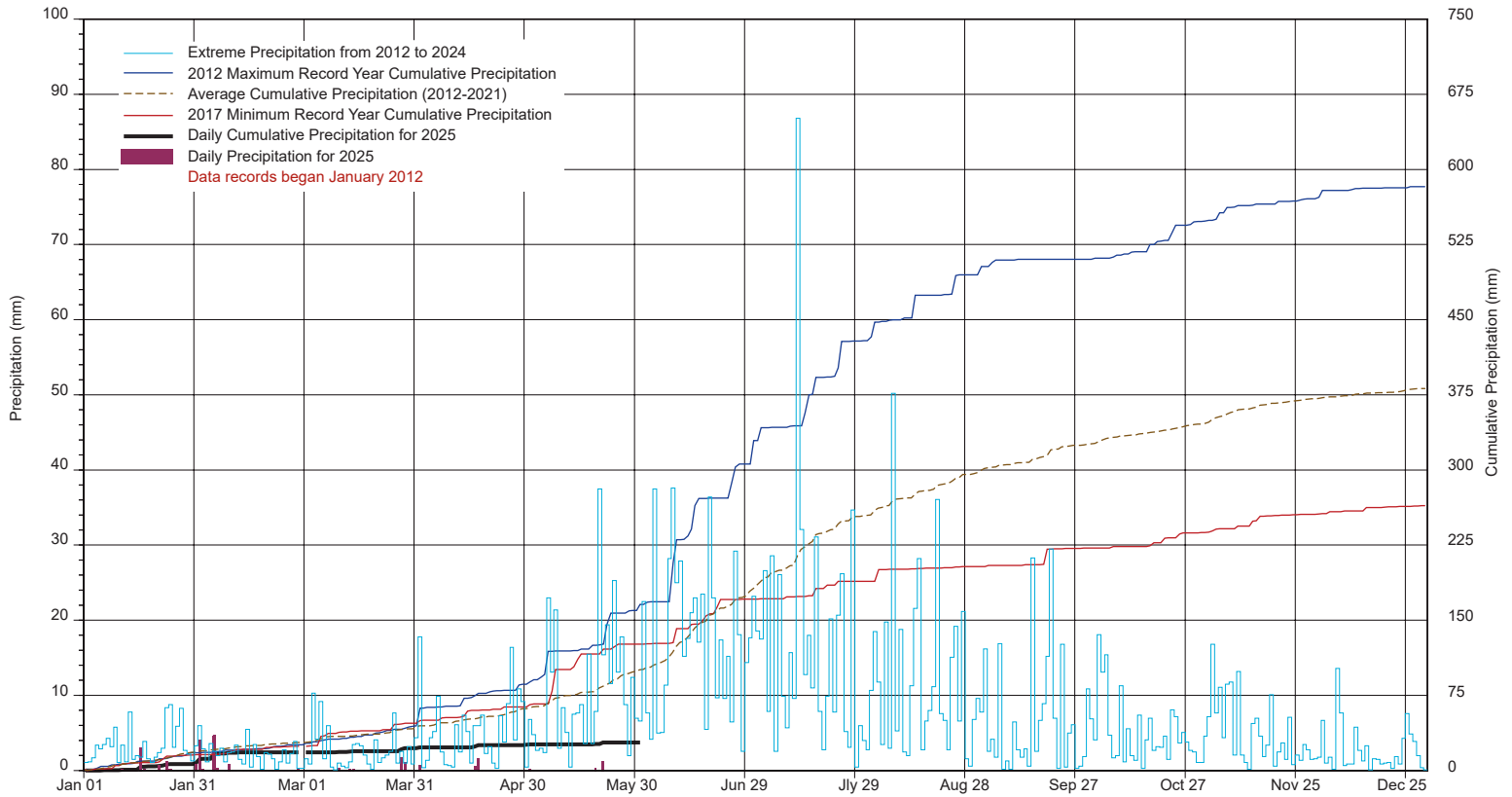


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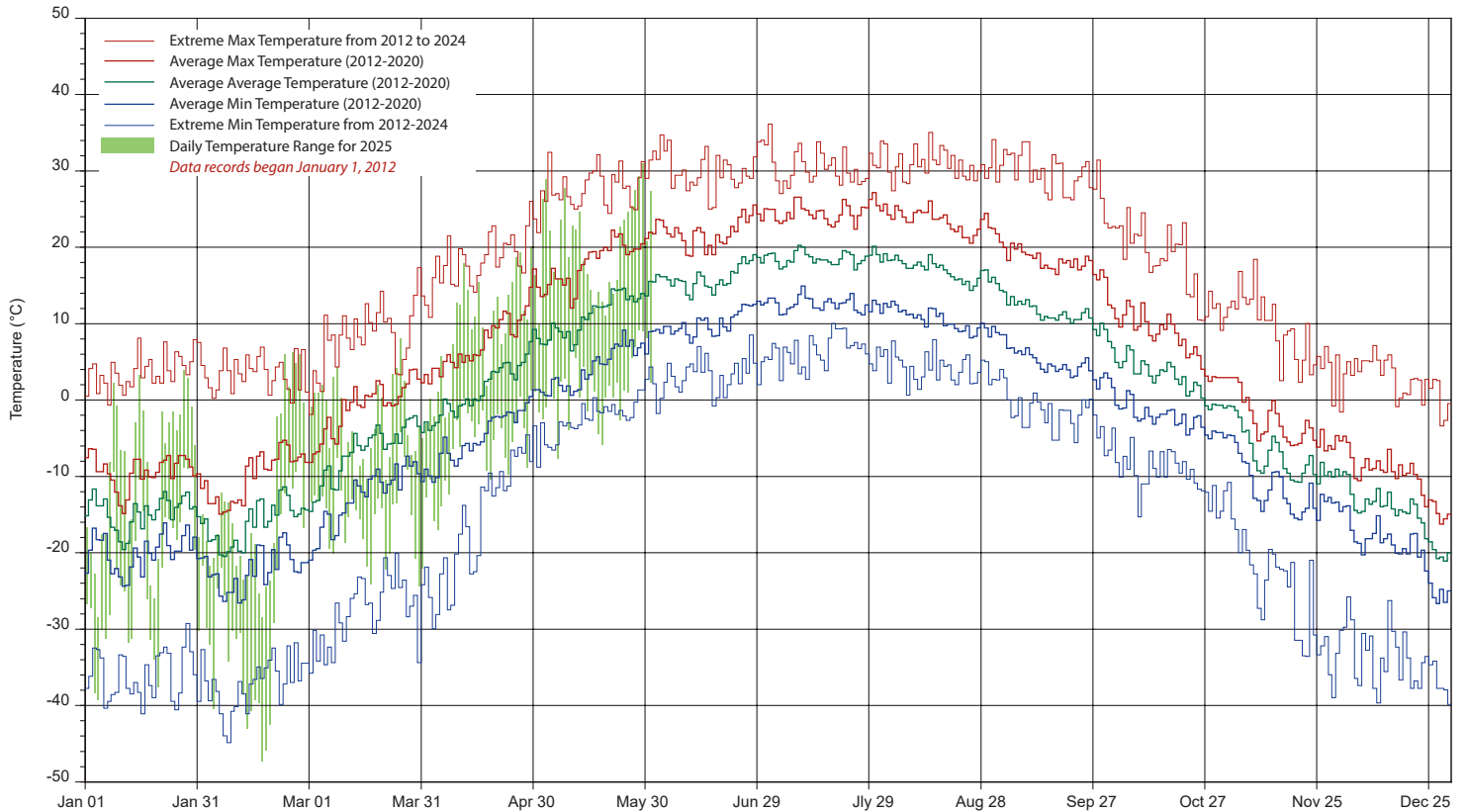




SRC's CLIMATE REFERENCE STATION at the Conservation Learning Centre 2025 PRECIPITATION AND AVERAGE



2025 TEMPERATURES AND AVERAGES



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