



SRC CLIMATE REFERENCE STATION DAILY DATA REPORT

CONSERVATION LEARNING CENTRE

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

Preliminary

July 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	26.6	25.1	7.2	12.8	16.9	19.0	11.9	1.1	0.0	0.0	0.0		97	34	1014	1012
2	27.1	25.0	8.4	13.4	17.8	19.2	12.8	0.2	0.0	0.2	0.0		98	44	1013	1005
3	29.2	25.0	16.2	13.4	22.7	19.3	17.7	0.0	4.7	1.1	1.2		75	44	1005	1000
4	20.4	23.5	9.0	12.8	14.7	18.2	9.7	3.3	0.0	0.0	0.0		80	40	1015	1004
5	20.7	23.2	4.4	11.2	12.6	17.2	7.6	5.4	0.0	0.0	0.0		95	45	1021	1016
6	21.9	23.5	5.9	11.3	13.9	17.5	8.9	4.1	0.0	0.0	0.0		98	44	1020	1015
7	22.4	24.6	6.8	12.0	14.6	18.3	9.6	3.4	0.0	0.0	0.0		99	48	1016	1015
8	25.7	23.8	8.5	12.2	17.1	18.1	12.1	0.9	0.0	0.0	0.0		96	49	1016	1007
9	27.6	26.6	13.6	12.6	20.6	19.6	15.6	0.0	2.6	0.0	0.0		84	44	1007	1003
10	22.2	26.6	12.3	13.9	17.3	20.3	12.3	0.7	0.0	0.9	1.0		85	40	1012	1006
11	23.8	25.1	8.5	15.0	16.2	20.1	11.2	1.8	0.0	0.0	0.0		90	44	1016	1011
12	26.6	24.9	10.6	13.4	18.6	19.1	13.6	0.0	0.6	0.0	0.0		84	36	1011	1005
13	24.3	24.3	8.2	13.3	16.3	18.8	11.3	1.7	0.0	0.0	0.0		95	38	1013	1009
14	20.7	23.8	8.9	12.1	14.8	18.0	9.8	3.2	0.0	2.4	3.0		95	45	1021	1013
15	18.6	24.8	4.8	12.1	11.7	18.5	6.7	6.3	0.0	0.0	0.0		97	43	1025	1021
16	20.0	24.9	2.0	11.8	11.0	18.4	6.0	7.0	0.0	0.0	0.0		98	41	1022	1017
17	22.7	23.8	2.5	12.9	12.6	18.4	7.6	5.4	0.0	0.0	0.0		99	44	1017	1014
18	22.7	23.0	3.5	13.3	13.1	18.1	8.1	4.9	0.0	0.0	0.0		99	49	1016	1015
19	21.0	22.7	5.0	12.8	13.0	17.8	8.0	5.0	0.0	0.1	0.0		98	51	1015	1014
20	17.3	23.4	9.8	12.0	13.6	17.8	8.6	4.4	0.0	0.8	0.8		97	68	1014	1009
21	21.2	24.3	10.9	12.7	16.1	18.5	11.1	1.9	0.0	2.3	2.6		98	56	1014	1008
22	18.0	26.3	7.6	12.8	12.8	19.6	7.8	5.2	0.0	0.0	0.0		88	44	1015	1013
23	21.6	25.5	0.1	13.2	10.9	19.4	5.9	7.1	0.0	0.0	0.0		98	39	1016	1014
24	23.1	24.2	6.7	14.0	14.9	19.1	9.9	3.1	0.0	0.0	0.0		98	51	1014	1007
25	24.3	22.4	8.8	11.8	16.6	17.1	11.6	1.4	0.0	0.0	0.0		98	54	1007	1003
26	22.7	24.2	7.4	11.5	15.1	17.9	10.1	2.9	0.0	0.0	0.0		89	44	1012	1006
27	21.7	25.3	6.3	11.2	14.0	18.3	9.0	4.0	0.0	0.0	0.0		98	48	1019	1011
28	19.6	25.2	2.8	12.5	11.2	18.9	6.2	6.8	0.0	0.0	0.0		93	39	1024	1019
29	22.2	26.3	-0.9	11.6	10.7	19.0	5.7	7.3	0.0	0.0	0.0		98	37	1026	1024
30	24.7	27.2	2.4	13.1	13.6	20.2	8.6	4.4	0.0	0.0	0.0		98	30	1026	1022
31	24.7	25.5	6.4	12.6	15.6	19.1	10.6	2.4	0.0	0.0	0.0		98	39	1024	1021
Total							305.6	105.3	7.9	7.8	8.6					
Avg	22.8	24.6	6.9	12.6	14.9	18.7	Monthly 2012 - 2021 Average			75.0	2012-2021 Average					
Extreme	29.2	36.1	-0.9	4.7			423.4	23	43.3	166.2	2025 Cumulative ppt		99	30	1026	1000
Date	3	2021	29	2015						252.3	Cumulative Average		7	30	29	3

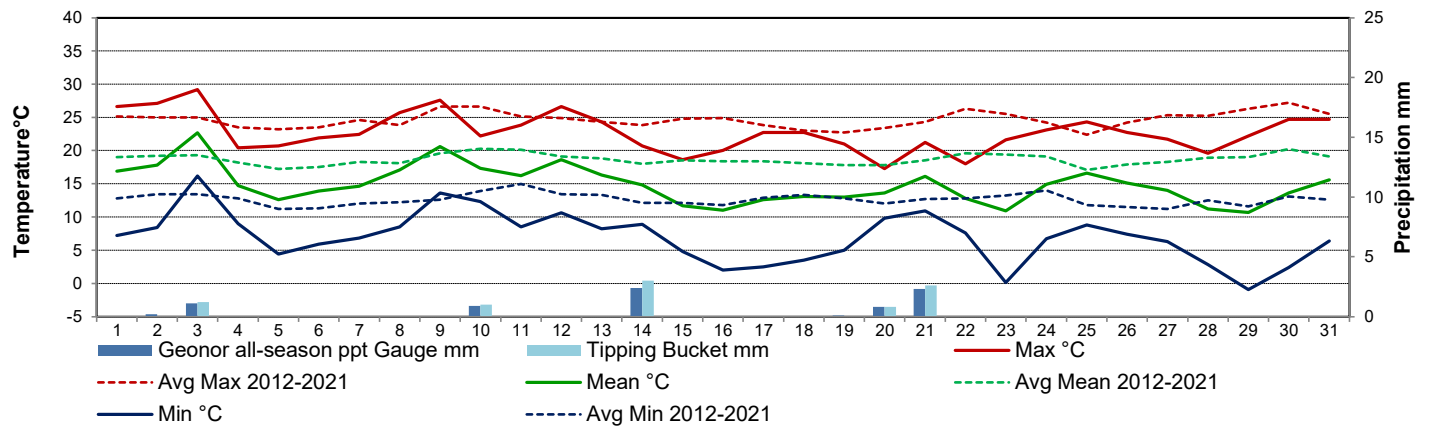
Note: Red numbers indicate manual calculation; Red cell indicate data not available

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

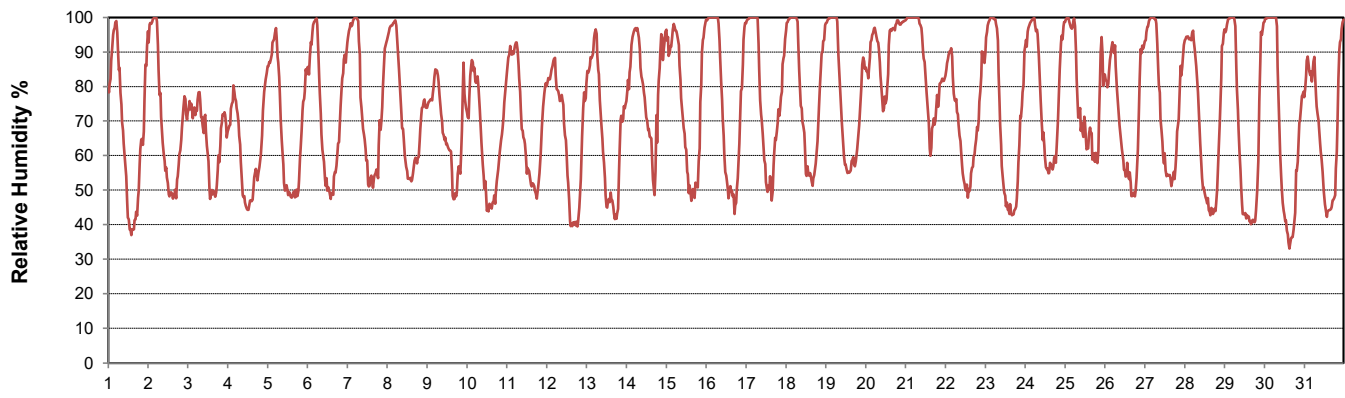
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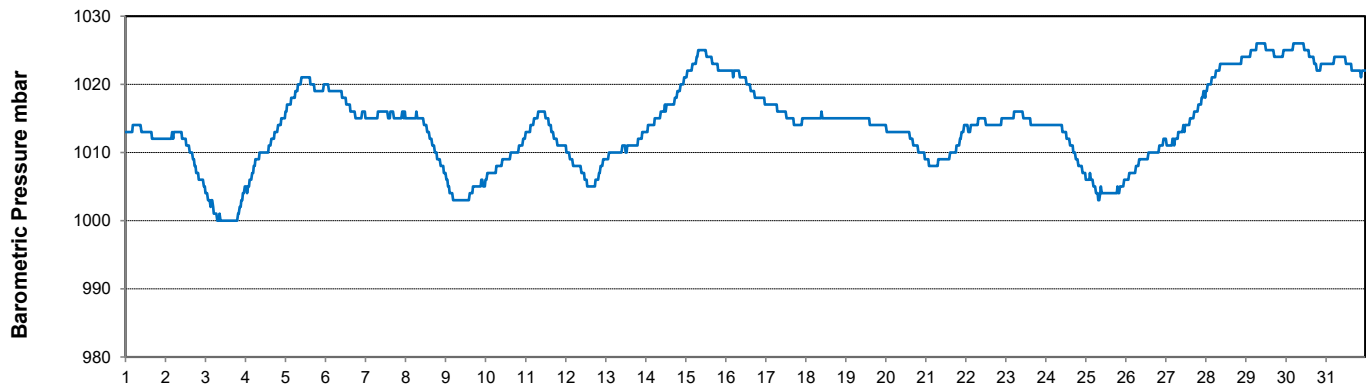
Temperature and Precipitation for July 2025



Relative Humidity for July 2025



Barometric Pressure Corrected to Sea Level for July 2025





SRC CLIMATE REFERENCE STATION DAILY DATA REPORT

CONSERVATION LEARNING CENTRE

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

Preliminary

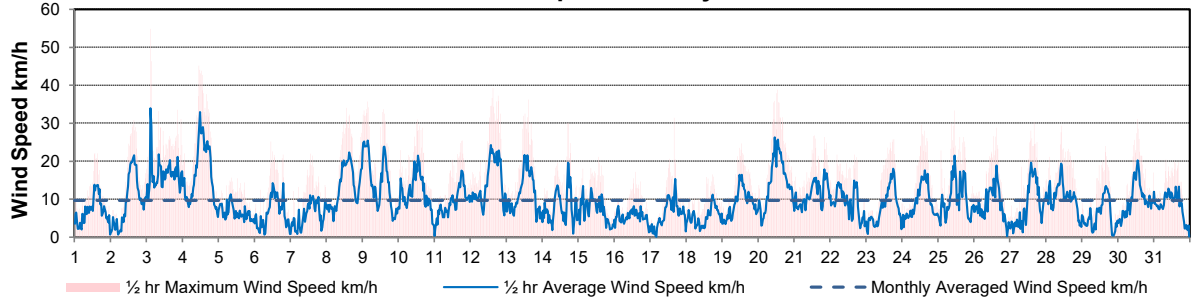
July 2025

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	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	22.1	N	13:48	6.7	19.0	16.0	17.5	16.0	14.5	11.0	8.5	5.0	13.5	16.8	80.2	25.6	6.8
2	30.9	S	15:44	9.5	20.0	16.5	18.0	16.5	14.5	11.0	8.5	5.0	15.7	16.8	93.4	28.4	4.6
3	54.8	SSE	2:57	17.0	22.5	18.5	19.5	17.5	15.0	11.5	9.0	5.0	12.9	16.8	76.8	26.0	5.5
4	45.1	WSW	11:27	17.0	17.5	17.5	19.5	17.5	15.5	11.5	9.0	5.0	12.7	16.8	75.7	26.2	7.1
5	15.6	ENE	8:48	6.6	16.0	15.5	17.5	16.5	15.5	12.0	9.0	5.0	13.5	16.7	80.6	26.1	7.4
6	25.2	SE	11:16	6.3	17.5	16.0	18.0	16.5	15.5	12.0	9.0	5.5	10.8	16.7	64.6	24.1	8.4
7	21.9	S	13:59	6.0	18.5	16.5	18.5	16.5	15.5	12.0	9.5	5.5	11.6	16.7	69.5	24.0	8.1
8	34.0	S	13:52	13.5	19.5	16.5	18.0	16.5	15.5	12.0	9.5	5.5	14.6	16.7	87.6	25.7	6.0
9	35.6	S	3:37	14.8	22.5	18.5	19.5	17.5	15.5	12.0	9.5	5.5	14.9	16.6	89.6	24.5	8.2
10	30.9	NW	13:09	11.9	19.0	18.0	19.5	17.5	16.0	12.5	9.5	5.5	9.6	16.6	57.8	19.6	11.8
11	25.4	SW	18:34	9.4	17.0	16.5	18.5	17.0	16.0	12.5	10.0	5.5	13.0	16.6	78.5	24.2	10.1
12	39.2	W	15:09	14.5	17.5	17.0	18.5	17.0	16.0	12.5	10.0	5.5	9.9	16.5	59.9	21.4	7.5
13	36.2	NNW	14:47	11.7	18.0	16.5	18.5	17.0	16.0	12.5	10.0	5.5	9.2	16.5	55.8	20.9	8.7
14	30.0	N	17:27	7.9	15.0	17.0	18.5	17.0	16.0	12.5	10.0	5.5	4.6	16.5	28.0	15.7	11.5
15	21.1	NNE	13:51	7.3	13.5	15.0	17.0	16.0	16.0	13.0	10.0	5.5	10.7	16.4	65.2	23.4	10.1
16	17.1	SSW	14:26	5.4	12.5	13.5	16.0	15.5	15.5	13.0	10.5	6.0	10.7	16.4	65.4	19.2	11.2
17	31.4	S	16:19	6.0	16.0	14.0	16.0	15.0	15.0	13.0	10.5	6.0	8.1	16.3	49.6	20.1	9.8
18	16.5	ENE	17:41	5.4	15.0	14.0	16.0	15.5	15.0	12.5	10.5	6.0	13.1	16.3	80.4	22.2	10.0
19	24.7	ESE	13:19	9.0	17.0	14.5	16.5	15.5	15.0	12.5	10.5	6.0	6.3	16.2	38.8	15.6	11.2
20	38.8	ESE	13:22	14.5	16.0	15.5	17.5	15.5	15.0	12.5	10.5	6.0	0.9	16.2	5.6	8.0	6.9
21	26.7	NW	13:30	11.5	14.5	15.0	17.0	15.0	15.0	12.5	10.5	6.0	3.1	16.2	19.2	12.5	9.1
22	21.7	N	4:52	9.0	14.5	15.0	16.5	15.5	15.0	12.5	10.5	6.0	7.0	16.1	43.5	18.1	9.2
23	25.7	SW	18:38	8.1	13.5	13.0	15.5	15.0	14.5	12.5	10.5	6.0	12.9	16.1	80.3	25.3	6.2
24	29.5	S	13:03	9.0	15.5	14.5	16.5	15.0	14.5	12.5	10.5	6.0	10.7	16.0	66.8	21.9	8.3
25	33.3	N	11:14	10.0	20.5	15.5	17.0	15.5	14.5	12.5	10.5	6.5	13.2	16.0	82.7	22.7	8.0
26	28.7	N	15:20	8.6	17.0	15.5	17.0	16.0	15.0	12.5	10.5	6.5	12.6	15.9	79.2	22.6	6.2
27	30.3	NW	16:15	8.6	16.0	15.0	17.0	16.0	15.0	12.5	10.5	6.5	9.1	15.9	57.4	20.6	10.7
28	29.3	NNW	10:58	10.6	14.0	15.0	17.0	16.0	15.0	12.5	10.5	6.5	14.0	15.8	88.6	24.7	7.0
29	24.0	W	16:09	5.7	13.0	13.0	15.5	15.0	15.0	12.5	11.0	6.5	12.8	15.8	81.3	22.2	7.6
30	31.0	SSW	13:16	9.9	14.5	13.0	15.5	15.0	15.0	12.5	11.0	6.5	10.5	15.7	66.9	20.1	9.8
31	20.3	SW	8:22	8.4	16.0	15.0	16.5	15.5	15.0	12.5	11.0	6.5	11.3	15.6	72.3	18.6	10.2
Total													333.5	506.0	65.9	670.2	263.2
Mean				9.7	16.7	15.6	17.4	16.1	15.2	12.3	10.0	5.8					
Extreme	54.8	SSE	2:57														
Date	3																

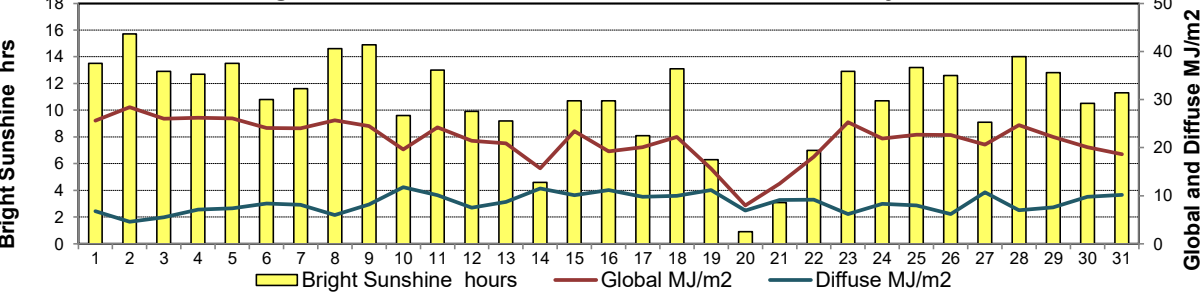
GLOSSARY OF TERMS

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 July 2025

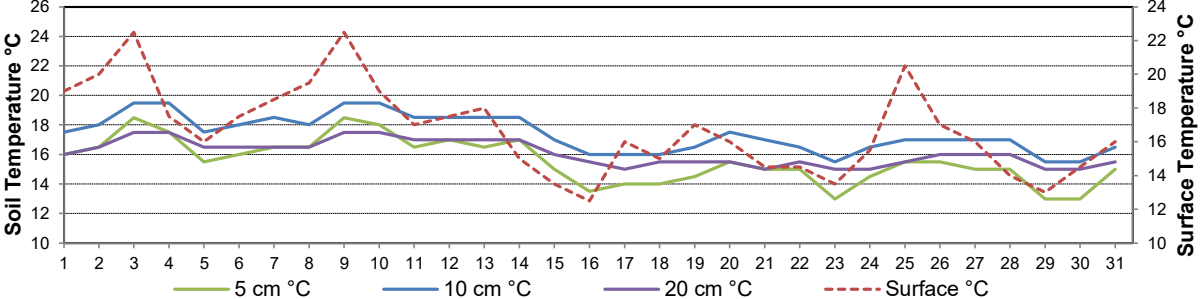


Bright Sunshine, Global and Diffuse Radiation for July 2025



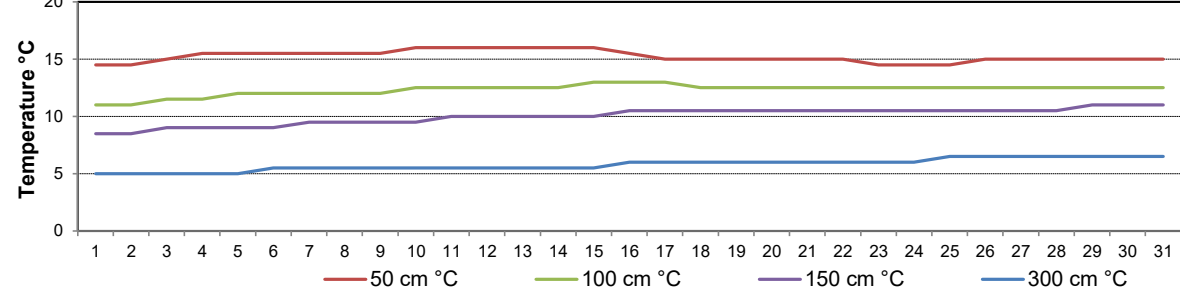
Soil Temperatures for July 2025

Surface - 20cm Level



Soil Temperatures for July 2025

50 - 300cm Level





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CONSERVATION LEARNING CENTRE

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

Preliminary

July 2025

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	3.0	10.7	18.9	3.0	36.5	46.5					
2	5.0	15.9	23.5	3.0	36.0	45.5					
3	12.0	23.4	39.1	3.0	35.0	45.5					
4	12.0	24.2	37.1	3.0	34.5	45.0					
5	3.0	8.7	15.1	2.5	33.5	45.5					
6	3.0	10.5	19.3	2.5	32.5	45.5					
7	3.0	7.7	16.0	2.0	31.0	45.0					
8	7.0	15.2	24.1	2.0	30.5	44.0					
9	9.0	17.4	27.3	2.0	29.0	43.5					
10	8.0	15.4	23.3	2.0	28.0	42.0					
11	5.0	12.8	21.6	2.0	26.5	41.5					
12	10.0	17.7	27.7	2.0	26.0	41.0					
13	7.0	15.6	26.0	1.5	25.0	40.0					
14	4.0	14.2	23.7	1.5	24.5	39.0					
15	4.0	10.1	15.6	1.5	24.5	39.0					
16	1.0	5.7	12.8	1.5	24.0	38.5					
17	2.0	10.9	17.7	1.5	24.0	38.5					
18	2.0	8.2	19.7	1.5	24.0	37.5					
19	4.0	9.4	17.9	1.5	23.5	37.0					
20	9.0	17.0	25.2	1.5	23.5	37.0					
21	7.0	12.3	20.2	1.5	23.5	36.0					
22	5.0	10.0	15.8	1.5	23.5	36.5					
23	4.0	12.2	19.5	1.5	23.0	36.5					
24	4.0	11.0	18.3	1.5	23.5	35.5					
25	5.0	15.4	20.6	1.5	23.0	35.5					
26	4.0	13.4	20.6	1.5	23.0	35.5					
27	4.0	14.3	21.0	1.5	23.0	35.5					
28	6.0	12.8	22.0	1.5	22.5	35.0					
29	3.0	8.8	16.8	1.5	22.5	34.5					
30	4.0	13.1	19.9	1.5	22.5	35.0					
31	4.0	18.0	15.0	1.5	22.5	35.0					
Total											
Mean				2	27	39.6					
Extreme	12.0	24.2	39.1	3	36.5	46.5					
Date	23.5	21	23.5	21.5	21.5	21.5					

July Temperatures

Temperature °C

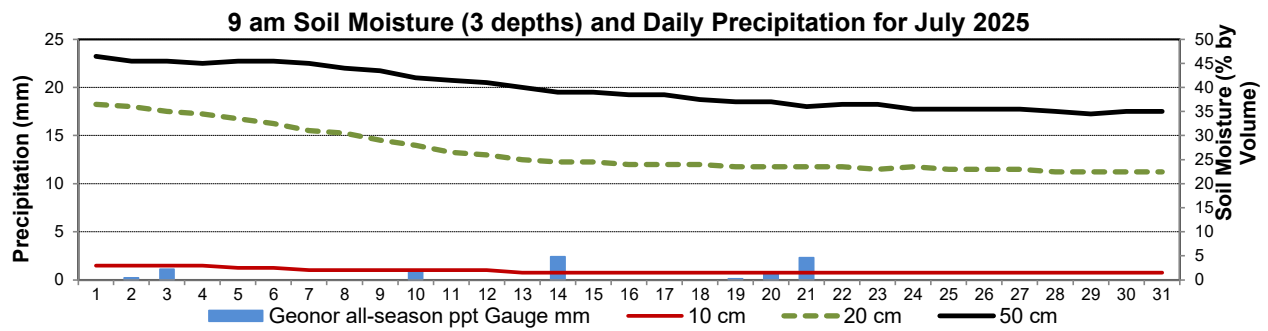
— Average Maximum Monthly Temperature — Average Minimum Monthly Temperature — Average Mean Monthly Temperature

July Precipitation

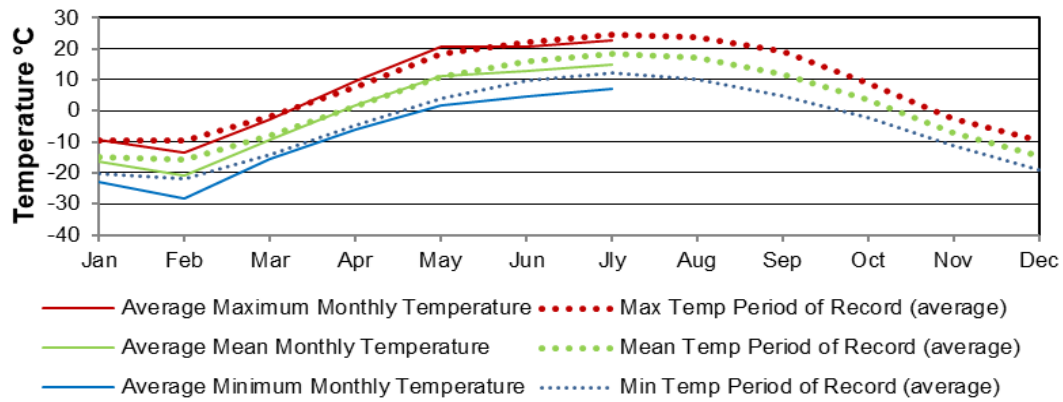
Precipitation mm

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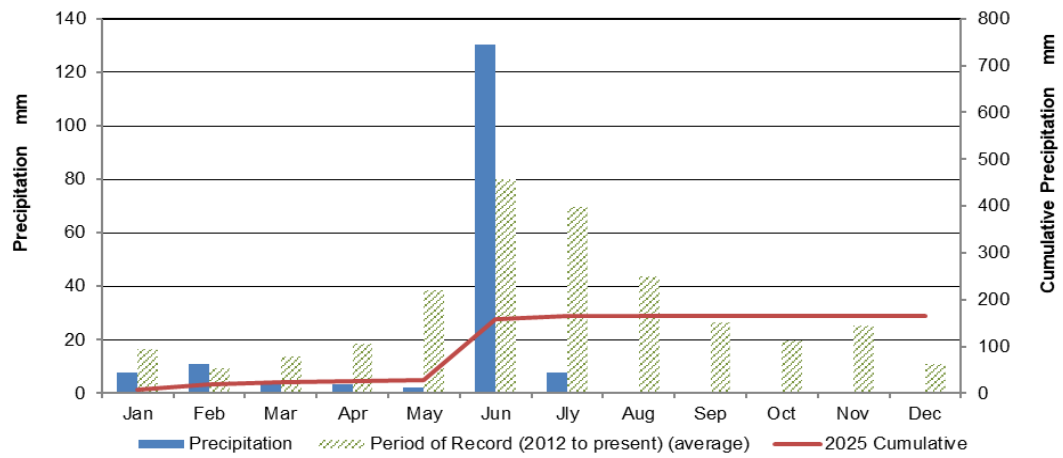
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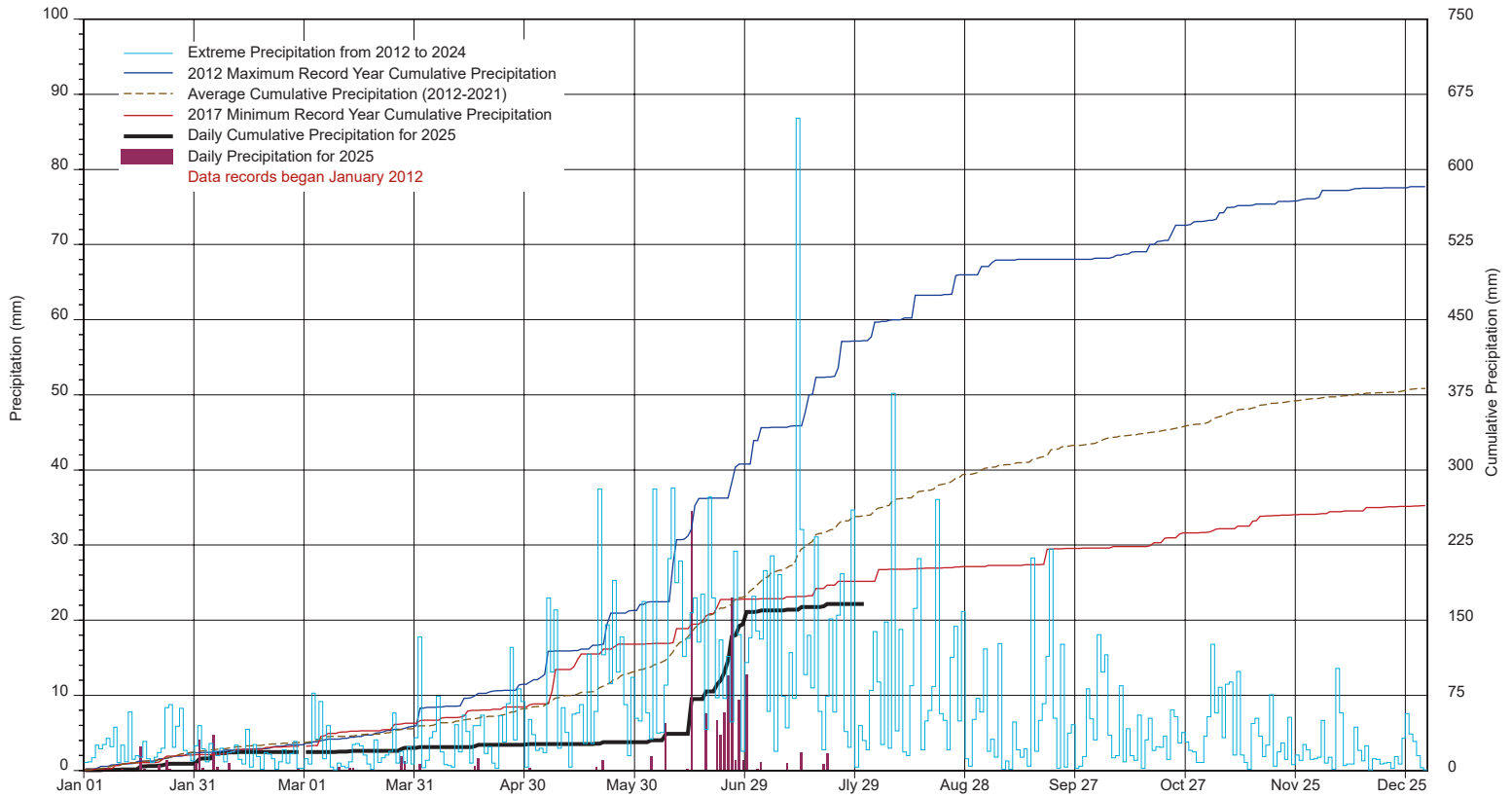
2025 Monthly Temperatures



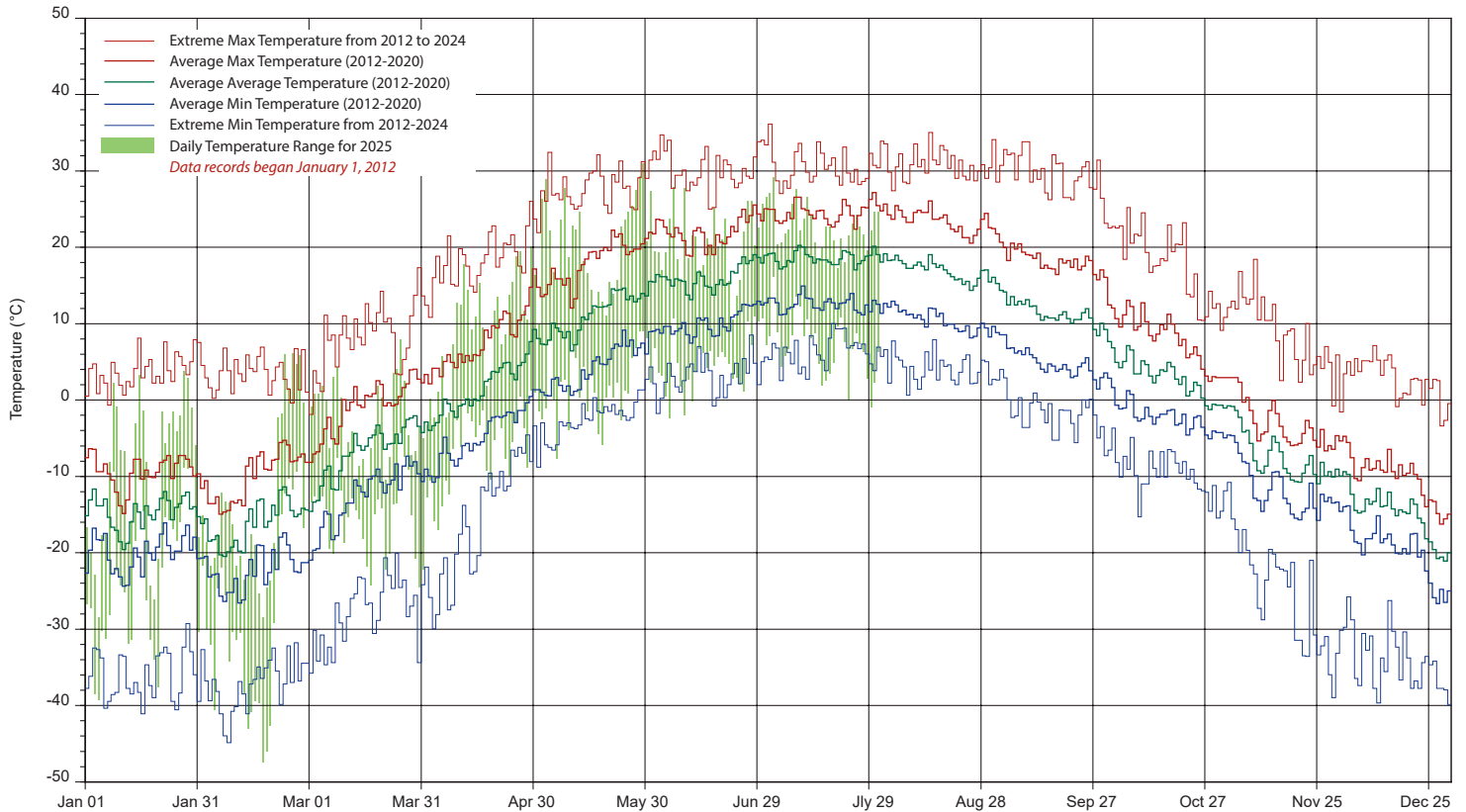
2025 Monthly Precipitation



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



2025 TEMPERATURES AND AVERAGES



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