



SRC CLIMATE REFERENCE STATION DAILY DATA REPORT

CONSERVATION LEARNING CENTRE

Saskatchewan 53.03°N 105.77°W Estab. 2011

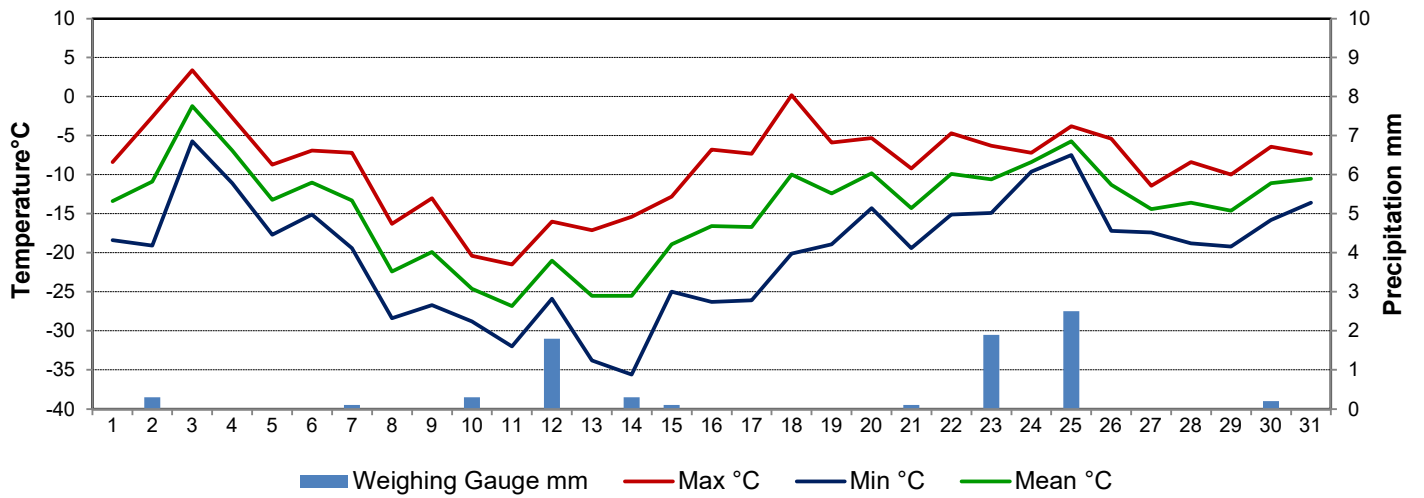
Preliminary **December 2019**

Day	Temperature			Degree-days			Precipitation			Relative Humidity		Station Pressure <i>corrected to sea level</i>	
	Max	Min	Mean	Growing	Heating	Cooling	Weighing Gauge	Comments	Snow-on-Ground 0900h	Max ½ hr Avg	Min ½ hr Avg	Max ½ hr Avg	Min ½ hr Avg
	°C	°C	°C	5°C base	18°C base	18°C base	mm		cm	%	%	mbar	mbar
1	-8.4	-18.4	-13.4	0.0	31.4	0.0	0.0		4	96	89	1018	1006
2	-2.6	-19.1	-10.9	0.0	28.9	0.0	0.3		3	93	72	1005	1000
3	3.4	-5.7	-1.2	0.0	19.2	0.0	0.0		2	84	69	1003	997
4	-2.7	-11.1	-6.9	0.0	24.9	0.0	0.0		2	94	79	1012	1003
5	-8.7	-17.7	-13.2	0.0	31.2	0.0	0.0		2	94	77	1019	1013
6	-6.9	-15.1	-11.0	0.0	29.0	0.0	0.0		2	95	87	1015	1009
7	-7.2	-19.4	-13.3	0.0	31.3	0.0	0.1		2	94	77	1017	1003
8	-16.3	-28.4	-22.4	0.0	40.4	0.0	0.0		2	87	74	1019	1011
9	-13.0	-26.7	-19.9	0.0	37.9	0.0	0.0		3	87	68	1022	1008
10	-20.4	-28.8	-24.6	0.0	42.6	0.0	0.3		2	84	69	1024	1016
11	-21.5	-32.0	-26.8	0.0	44.8	0.0	0.0		3	84	72	1024	1019
12	-16.0	-25.9	-21.0	0.0	39.0	0.0	1.8		3	87	80	1019	1010
13	-17.1	-33.8	-25.5	0.0	43.5	0.0	0.0		7	88	77	1021	1012
14	-15.4	-35.6	-25.5	0.0	43.5	0.0	0.3		6	86	77	1020	1003
15	-12.8	-25.0	-18.9	0.0	36.9	0.0	0.1		5	89	74	1009	1003
16	-6.8	-26.3	-16.6	0.0	34.6	0.0	0.0		5	90	74	1018	1007
17	-7.3	-26.1	-16.7	0.0	34.7	0.0	0.0		5	89	73	1020	1002
18	0.2	-20.1	-10.0	0.0	28.0	0.0	0.0		5	95	69	1014	1000
19	-5.9	-18.9	-12.4	0.0	30.4	0.0	0.0		5	91	83	1015	1008
20	-5.3	-14.3	-9.8	0.0	27.8	0.0	0.0		5	95	84	1009	1003
21	-9.2	-19.4	-14.3	0.0	32.3	0.0	0.1		5	94	90	1010	1000
22	-4.7	-15.1	-9.9	0.0	27.9	0.0	0.0		5	97	82	1014	999
23	-6.3	-14.9	-10.6	0.0	28.6	0.0	1.9		5	98	92	1015	1009
24	-7.2	-9.6	-8.4	0.0	26.4	0.0	0.0		8	97	94	1013	1010
25	-3.8	-7.5	-5.7	0.0	23.7	0.0	2.5		7	99	93	1011	1007
26	-5.4	-17.2	-11.3	0.0	29.3	0.0	0.0		8	97	81	1010	1006
27	-11.4	-17.4	-14.4	0.0	32.4	0.0	0.0		8	91	77	1008	1003
28	-8.4	-18.8	-13.6	0.0	31.6	0.0	0.0		7	96	89	1019	1009
29	-10.0	-19.2	-14.6	0.0	32.6	0.0	0.0		7	94	89	1019	1015
30	-6.4	-15.8	-11.1	0.0	29.1	0.0	0.2		7	97	92	1018	1009
31	-7.3	-13.6	-10.5	0.0	28.5	0.0	0.0		7	97	92	1008	988
Total				0.0	1002.4	0.0	7.6	0					
Avg	-8.7	-19.9	-14.3				311.4	Cumulative ppt					
Extreme	3.4	-35.6					2.5	0.0	8	99	68	1024	988
Date	3	14					25			25	9	10	31

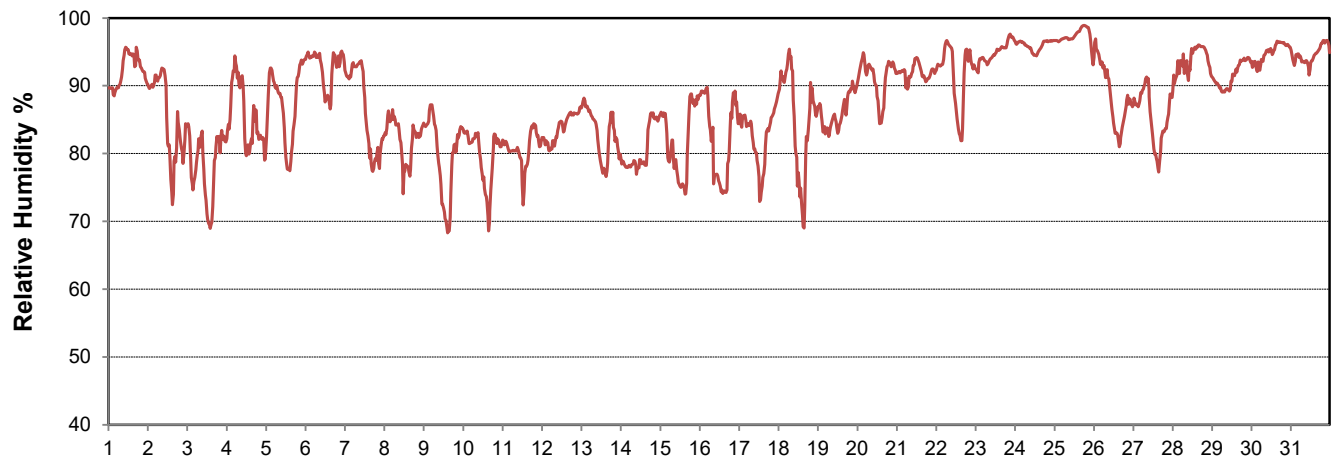
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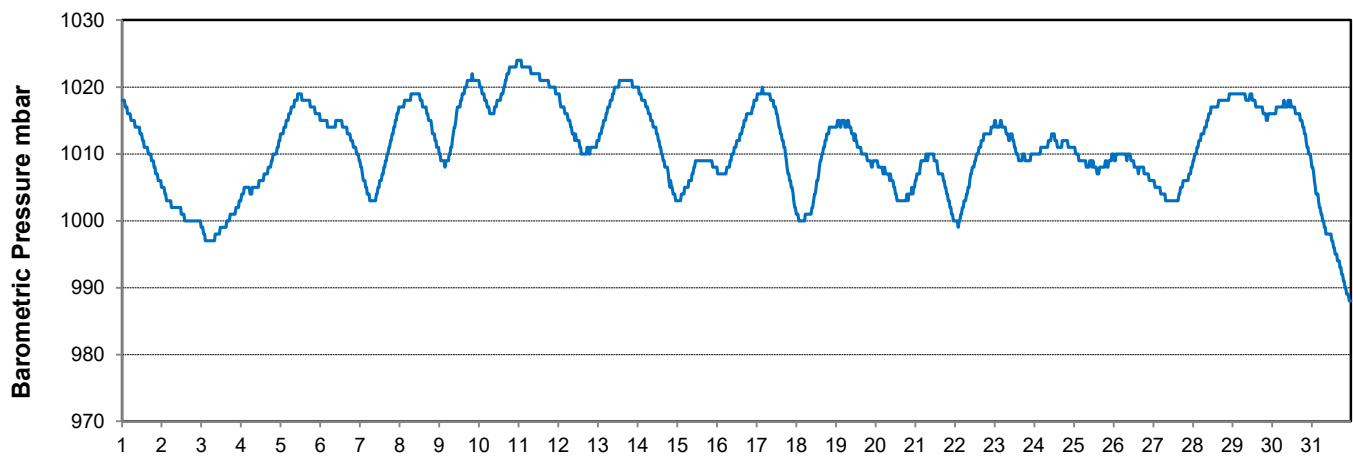
Temperature and Precipitation for December 2019



Relative Humidity for December 2019



Barometric Pressure Corrected to Sea Level for December 2019





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Preliminary

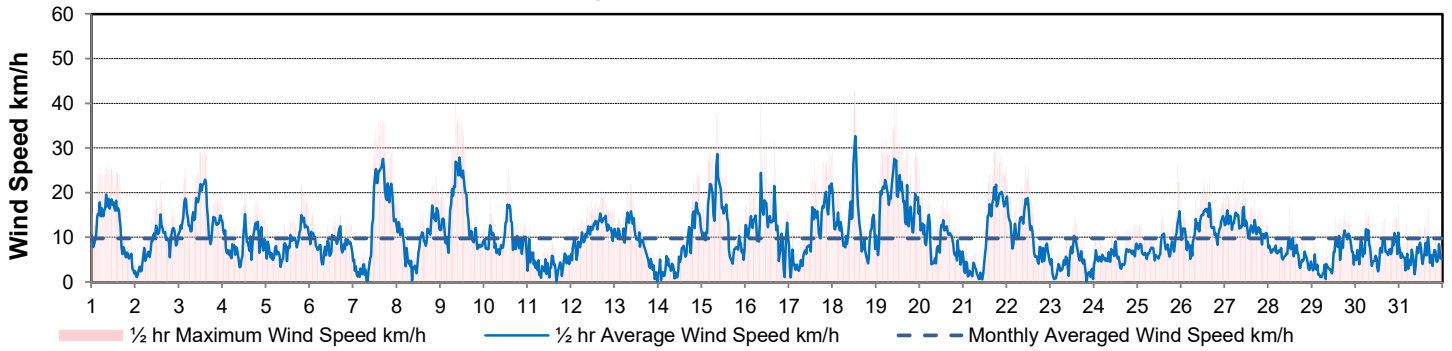
December 2019

Day	Wind Gust			Soil Temperatures at 0900hrs								Radiation				
	Max	Direction	Time	Surface	5 cm	10 cm	20 cm	50 cm	100 cm	150 cm	300 cm	Bright Sunshine	Possible	% Possible	Global	Diffuse
	km/h			°C	°C	°C	°C	°C	°C	°C	°C	hours	hours		MJ/m ²	MJ/m ²
1	26.3	SW	8:01	-8.5	-1.0	-1.0	-0.5	1.0	2.5	4.5	6.5	0.3	8.0	3.8	2.0	1.9
2	22.5	SW	14:20	-10.5	-1.5	-1.5	-0.5	1.0	2.5	4.5	6.5	2.9	7.9	36.7	3.7	2.4
3	29.9	W	14:32	-5.0	-1.5	-1.5	-0.5	0.5	2.5	4.0	6.0	7.0	7.9	88.8	3.9	0.8
4	20.2	N	12:39	-7.0	-1.5	-1.0	-0.5	1.0	2.5	4.0	6.5	0.0	7.8	0.0	2.3	2.1
5	21.4	SSW	19:59	-12.5	-2.0	-1.5	-0.5	1.0	2.5	4.0	6.5	0.0	7.8	0.0	2.3	2.1
6	15.1	SW	1:51	-11.0	-2.0	-1.5	-0.5	1.0	2.5	4.0	6.5	5.7	7.8	73.3	4.7	1.2
7	36.5	N	15:13	-9.0	-2.0	-1.5	-0.5	0.5	2.5	4.0	6.5	0.0	7.8	0.0	1.6	1.4
8	23.8	SW	22:24	-25.0	-3.0	-2.0	-1.0	0.5	2.5	4.0	6.5	6.7	7.7	86.7	5.2	1.3
9	40.7	N	8:48	-13.5	-3.0	-2.5	-1.5	0.5	2.5	4.0	6.0	6.3	7.7	81.7	3.7	1.1
10	25.3	N	13:54	-26.0	-4.0	-3.5	-1.5	0.5	2.5	4.0	6.0	7.0	7.7	91.1	5.1	1.1
11	12.3	W	1:03	-26.5	-5.0	-4.0	-2.5	0.5	2.5	4.0	6.0	3.6	7.7	47.0	3.0	1.8
12	20.7	E	16:27	-19.0	-4.5	-4.0	-2.5	0.5	2.0	4.0	6.0	0.0	7.6	0.0	2.4	2.1
13	21.8	N	9:04	-20.0	-3.5	-3.0	-2.5	0.0	2.0	3.5	6.0	6.7	7.6	87.8	5.3	1.1
14	24.6	SSW	21:36	-27.0	-4.0	-3.5	-2.5	0.0	2.0	3.5	6.0	6.6	7.6	86.7	5.0	1.1
15	37.4	NNW	8:54	-15.0	-3.5	-3.0	-2.5	0.0	2.0	3.5	6.0	6.8	7.6	89.5	3.6	1.0
16	41.4	NNW	8:44	-7.5	-3.5	-3.0	-2.5	0.0	2.0	3.5	6.0	2.7	7.6	35.6	2.6	1.6
17	30.8	S	22:56	-17.5	-3.5	-3.5	-2.5	0.0	2.0	3.5	6.0	0.5	7.6	6.6	2.1	1.9
18	42.9	NNW	12:10	-9.5	-3.0	-3.0	-2.5	-0.5	1.5	3.5	6.0	5.8	7.6	76.6	3.2	1.5
19	40.5	E	10:15	-15.5	-3.5	-3.0	-2.5	-0.5	1.5	3.5	6.0	0.0	7.6	0.0	2.0	1.8
20	25.6	SSE	0:10	-9.5	-3.0	-3.0	-2.5	-0.5	1.5	3.0	5.5	2.8	7.6	37.0	2.5	1.9
21	29.2	E	18:23	-13.0	-3.5	-3.0	-2.0	-0.5	1.5	3.0	6.0	0.0	7.6	0.0	1.5	1.4
22	25.9	NW	10:33	-7.5	-3.0	-3.0	-2.0	-0.5	1.5	3.0	5.5	6.0	7.6	79.4	3.8	1.0
23	14.7	ESE	14:21	-10.0	-3.0	-3.0	-2.0	-0.5	1.5	3.0	5.5	0.0	7.6	0.0	1.2	1.0
24	12.7	SSE	23:30	-8.0	-2.5	-2.5	-2.0	-0.5	1.5	3.0	5.5	0.0	7.6	0.0	1.2	1.0
25	26.3	W	22:27	-6.0	-2.5	-2.5	-2.0	-0.5	1.0	3.0	5.5	0.0	7.6	0.0	0.9	0.7
26	23.0	SW	15:45	-14.5	-2.0	-2.0	-1.5	-0.5	1.0	3.0	5.5	5.9	7.6	77.8	2.0	0.5
27	22.9	SSW	10:42	-17.0	-2.5	-2.5	-2.0	-0.5	1.5	3.0	5.5	6.9	7.6	90.9	2.5	0.5
28	16.8	WNNW	11:49	-17.5	-3.0	-2.5	-2.0	-0.5	1.0	3.0	5.5	1.3	7.6	17.1	1.4	1.0
29	15.9	SSW	18:28	-15.5	-3.0	-2.5	-2.0	-0.5	1.0	3.0	5.5	3.4	7.6	44.6	2.2	0.8
30	17.3	SSE	23:55	-9.5	-3.0	-3.0	-2.0	-0.5	1.0	2.5	5.5	0.0	7.6	0.0	1.4	1.0
31	16.0	SW	16:09	-10.5	-2.5	-2.5	-2.0	-0.5	1.0	2.5	5.5	1.5	7.7	19.6	3.2	2.0
Total												96.4	237.5	40.6	87.5	42.1
Mean				-13.7	-2.9	-2.6	-1.7	0.0	1.9	3.5	5.9					
Extreme	42.9	NNW	12:10													
Date	18															

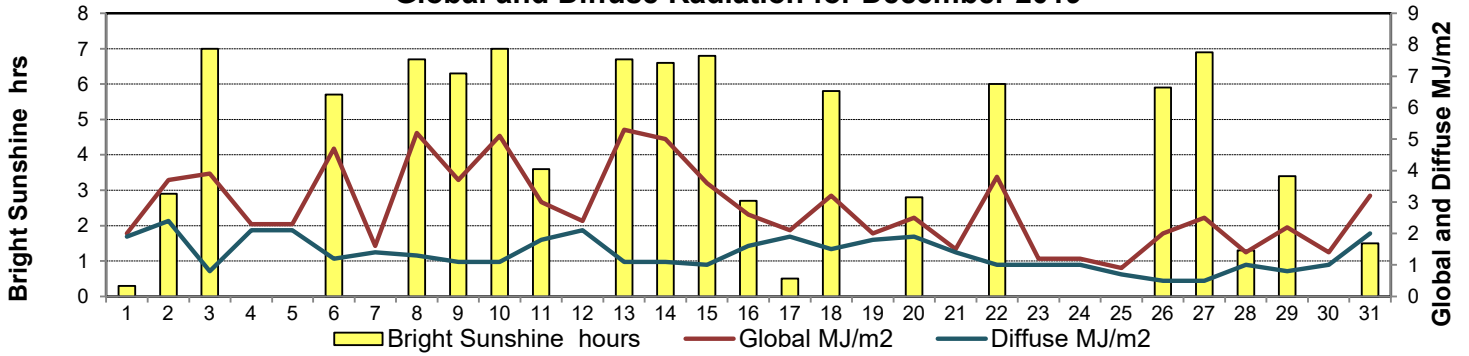
GLOSSARY OF TERMS

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 December 2019

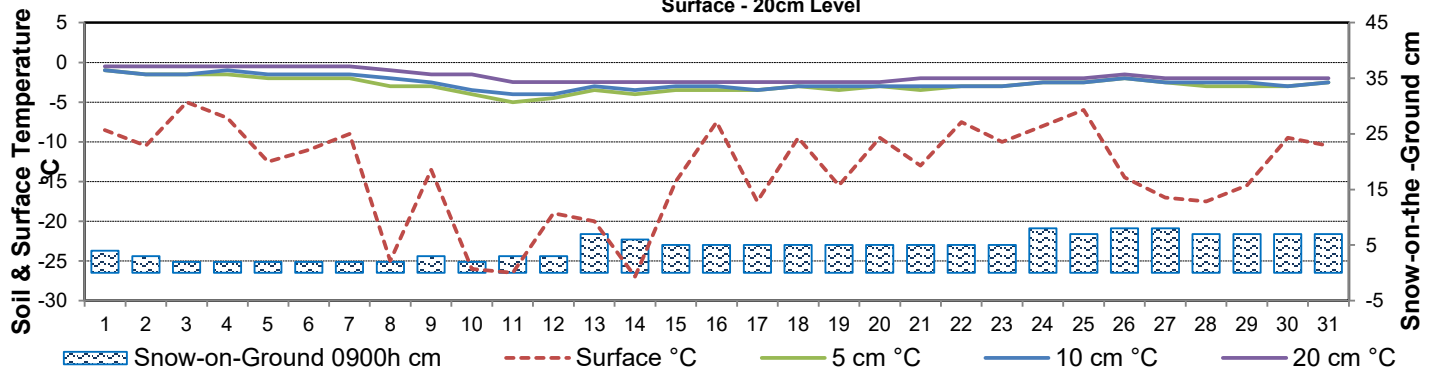


Global and Diffuse Radiation for December 2019



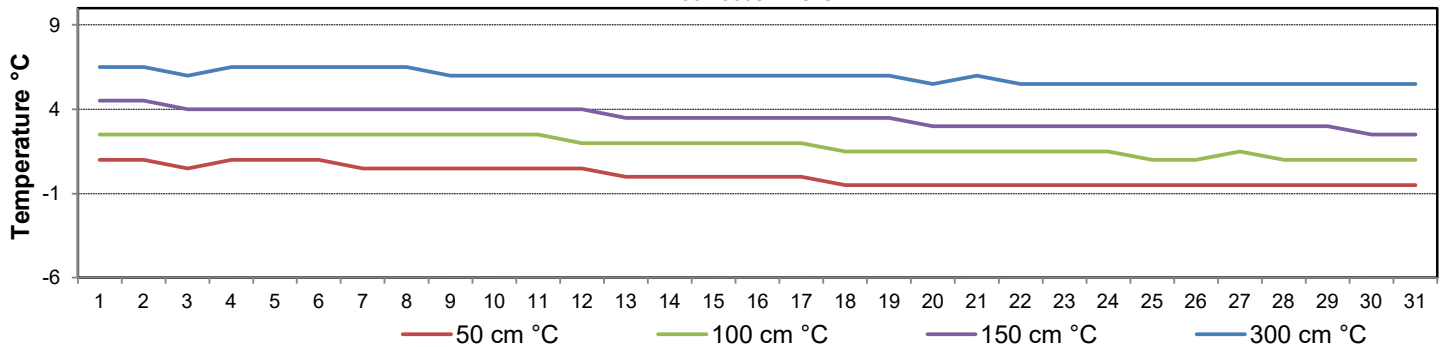
Soil Temperatures for December 2019

Surface - 20cm Level



Soil Temperatures for December 2019

50 - 300cm Level





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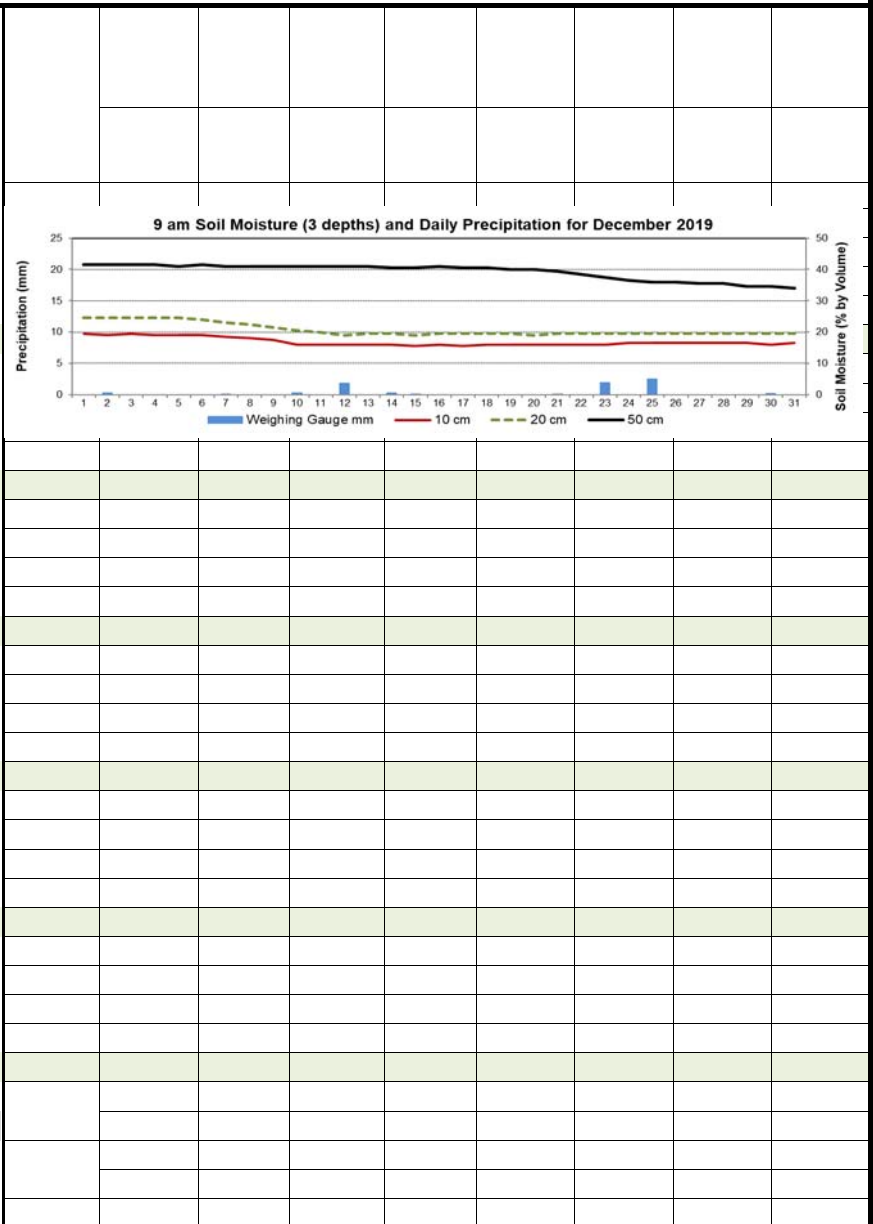
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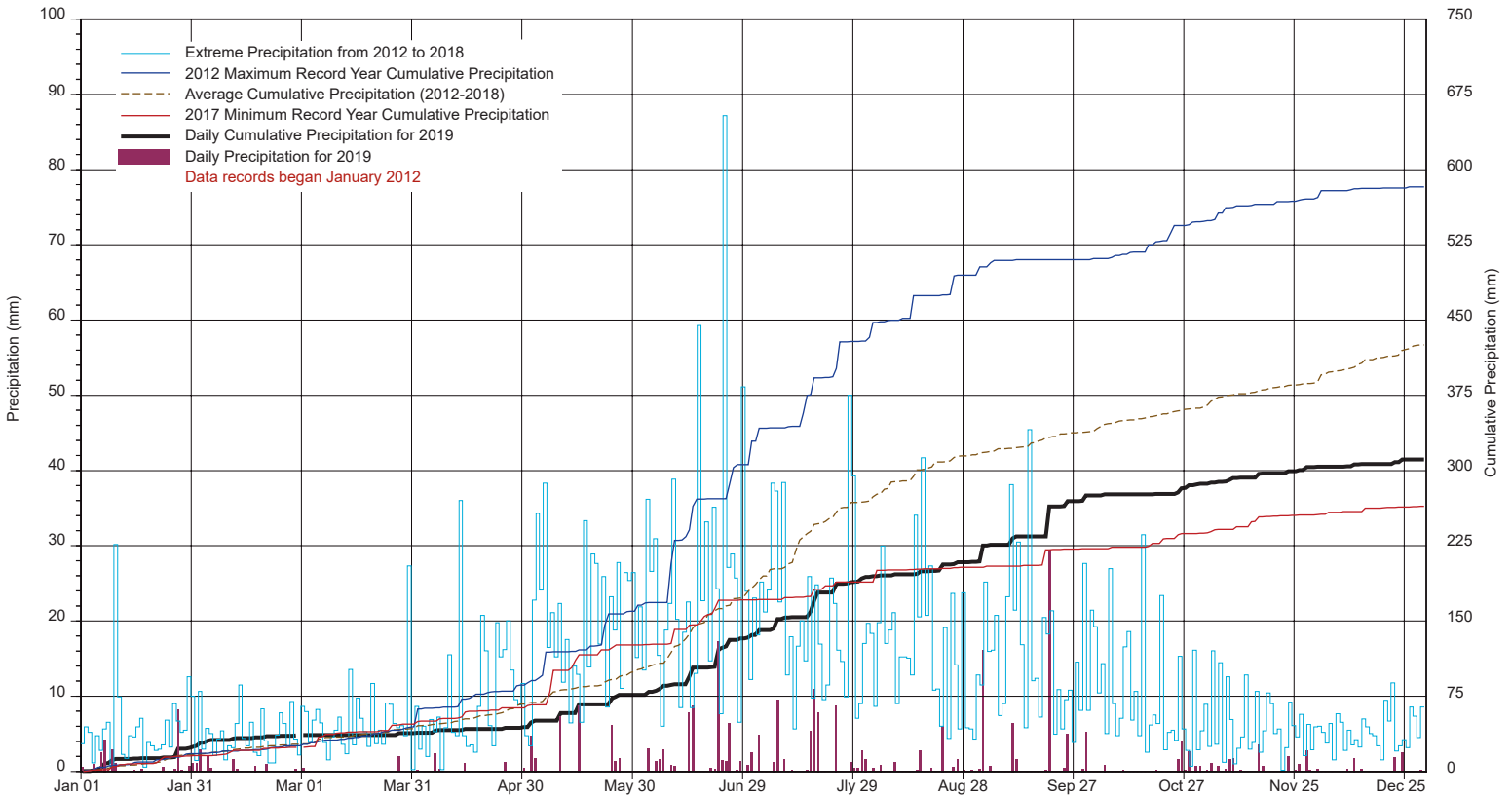
Day	2 meter Wind Speed			Soil Moisture at 0900 hrs (rounded to the 0.5%)		
	Daily Average	Max ½ hr Avg	½ hr Extreme Max	10 cm	20 cm	50 cm
	km/h	km/h	km/h	% by volume (soil type is Clay Loam)		
1	10.0	15.6	21.8	19.5	24.5	41.5
2	6.0	12.7	18.3	19.0	24.5	41.5
3	11.0	17.1	23.3	19.5	24.5	41.5
4	7.0	11.9	15.4	19.0	24.5	41.5
5	7.0	12.0	17.2	19.0	24.5	41.0
6	6.0	8.8	12.6	19.0	24.0	41.5
7	10.0	20.4	28.3	18.5	23.0	41.0
8	8.0	14.0	19.1	18.0	22.5	41.0
9	12.0	20.7	29.3	17.5	21.5	41.0
10	7.0	13.7	21.4	16.0	20.5	41.0
11	3.0	5.7	8.9	16.0	20.0	41.0
12	9.0	12.4	17.9	16.0	19.0	41.0
13	6.0	12.1	17.2	16.0	19.5	41.0
14	5.0	14.7	22.7	16.0	19.5	40.5
15	10.0	21.9	28.9	15.5	19.0	40.5
16	10.0	18.7	32.7	16.0	19.5	41.0
17	8.0	17.2	23.1	15.5	19.5	40.5
18	10.0	24.6	33.1	16.0	19.5	40.5
19	14.0	21.3	31.0	16.0	19.5	40.0
20	7.0	11.7	21.2	16.0	19.0	40.0
21	8.0	17.3	23.3	16.0	19.5	39.5
22	8.0	14.9	21.2	16.0	19.5	38.5
23	3.0	6.6	9.3	16.0	19.5	37.5
24	5.0	7.2	10.1	16.5	19.5	36.5
25	6.0	10.8	16.0	16.5	19.5	36.0
26	9.0	14.1	18.9	16.5	19.5	36.0
27	10.0	13.3	19.3	16.5	19.5	35.5
28	5.0	6.9	11.4	16.5	19.5	35.5
29	4.0	9.6	12.6	16.5	19.5	34.5
30	5.0	8.1	11.4	16.0	19.5	34.5
31	3.0	2.0	12.0	16.5	19.5	34.0
Total						
Mean				17	21	39.2
Extreme	14.0	24.6	33.1	19.5	24.5	41.5
Date	-2.5	-2.5	-2.5	-0.5	-0.5	-0.5



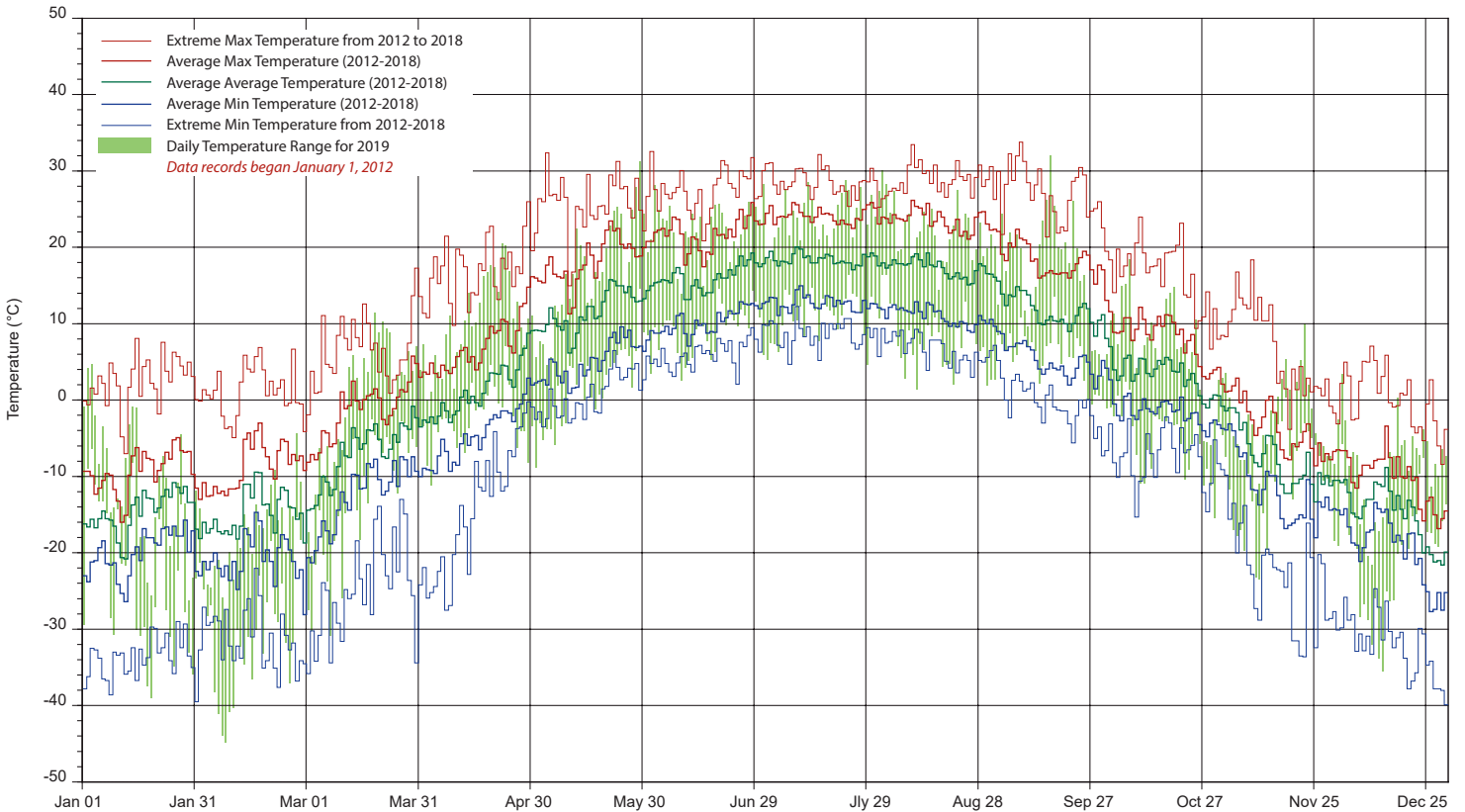
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2019 TEMPERATURES AND AVERAGES



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