



SRC CLIMATE REFERENCE STATION DAILY DATA REPORT

CONSERVATION LEARNING CENTRE

Saskatchewan 53.03°N 105.77°W Estab. 2011

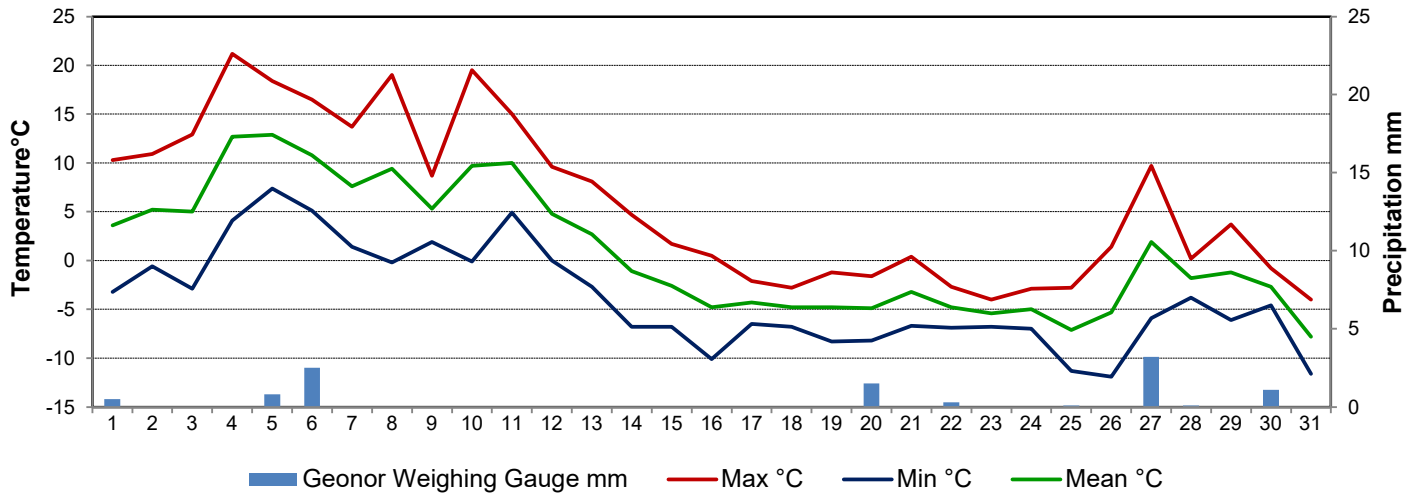
Preliminary **October 2020**

Day	Temperature			Degree-days			Precipitation			Relative Humidity		Station Pressure <i>corrected to sea level</i>	
	Max	Min	Mean	Growing	Heating	Cooling	Geonor Weighing Gauge	Tipping Bucket	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	mm	cm	%	%	mbar	mbar
1	10.3	-3.2	3.6	0.0	14.4	0.0	0.5	0.4	0	100	55	1028	1018
2	10.9	-0.6	5.2	0.2	12.8	0.0	0.0	0.0	0	100	69	1021	1016
3	12.9	-2.9	5.0	0.0	13.0	0.0	0.0	0.0	0	100	52	1022	1013
4	21.2	4.1	12.7	7.7	5.3	0.0	0.0	0.2	0	86	44	1013	1000
5	18.4	7.4	12.9	7.9	5.1	0.0	0.8	0.6	0	93	33	1008	1002
6	16.5	5.1	10.8	5.8	7.2	0.0	2.5	2.6	0	89	52	1010	1002
7	13.7	1.4	7.6	2.6	10.4	0.0	0.0	0.2	0	99	50	1018	1011
8	19.0	-0.2	9.4	4.4	8.6	0.0	0.0	0.0	0	100	34	1016	998
9	8.7	1.9	5.3	0.3	12.7	0.0	0.0	0.0	0	91	63	1011	1001
10	19.5	-0.1	9.7	4.7	8.3	0.0	0.0	0.0	0	96	39	1010	986
11	15.0	4.9	10.0	5.0	8.0	0.0	0.0	0.0	0	79	50	997	984
12	9.6	0.0	4.8	0.0	13.2	0.0	0.0	0.0	0	89	48	1000	997
13	8.1	-2.7	2.7	0.0	15.3	0.0	0.0	0.0	0	82	44	1004	1000
14	4.7	-6.8	-1.1	0.0	19.1	0.0	0.0	0.0	0	89	39	1013	1002
15	1.7	-6.8	-2.6	0.0	20.6	0.0	0.0	0.0	0	79	36	1016	1013
16	0.5	-10.1	-4.8	0.0	22.8	0.0	0.0	0.0	0	74	29	1015	1007
17	-2.1	-6.5	-4.3	0.0	22.3	0.0	0.0	0.0	0	77	55	1018	1011
18	-2.8	-6.8	-4.8	0.0	22.8	0.0	0.0	0.0	0	81	64	1020	1018
19	-1.2	-8.3	-4.8	0.0	22.8	0.0	0.0	0.0	0	80	47	1020	1014
20	-1.6	-8.2	-4.9	0.0	22.9	0.0	1.5	0.0	1	94	67	1016	1013
21	0.4	-6.7	-3.2	0.0	21.2	0.0	0.0	0.0	1	91	48	1022	1015
22	-2.7	-6.9	-4.8	0.0	22.8	0.0	0.3	0.0	1	91	69	1029	1022
23	-4.0	-6.8	-5.4	0.0	23.4	0.0	0.0	0.0	0	85	54	1029	1026
24	-2.9	-7.0	-5.0	0.0	23.0	0.0	0.0	0.0	0	82	57	1029	1026
25	-2.8	-11.3	-7.1	0.0	25.1	0.0	0.1	0.0	0	78	52	1028	1019
26	1.4	-11.9	-5.3	0.0	23.3	0.0	0.0	0.0	0	78	42	1018	1006
27	9.7	-5.9	1.9	0.0	16.1	0.0	3.2	0.0	2	96	65	1005	995
28	0.2	-3.8	-1.8	0.0	19.8	0.0	0.1	0.0	0	94	77	1018	1006
29	3.7	-6.1	-1.2	0.0	19.2	0.0	0.0	0.0	1	99	83	1017	1011
30	-0.8	-4.6	-2.7	0.0	20.7	0.0	1.1	0.0	0	99	82	1017	990
31	-4.0	-11.6	-7.8	0.0	25.8	0.0	0.0	0.0	1	94	74	1022	996
Total				38.6	528.0	0.0	10.1						
Avg	5.8	-3.9	1.0				343.2		Cumulative ppt				
Extreme	21.2	-11.9					3.2		2	100	29	1029	984
Date	4	26					27			1	16	22	11

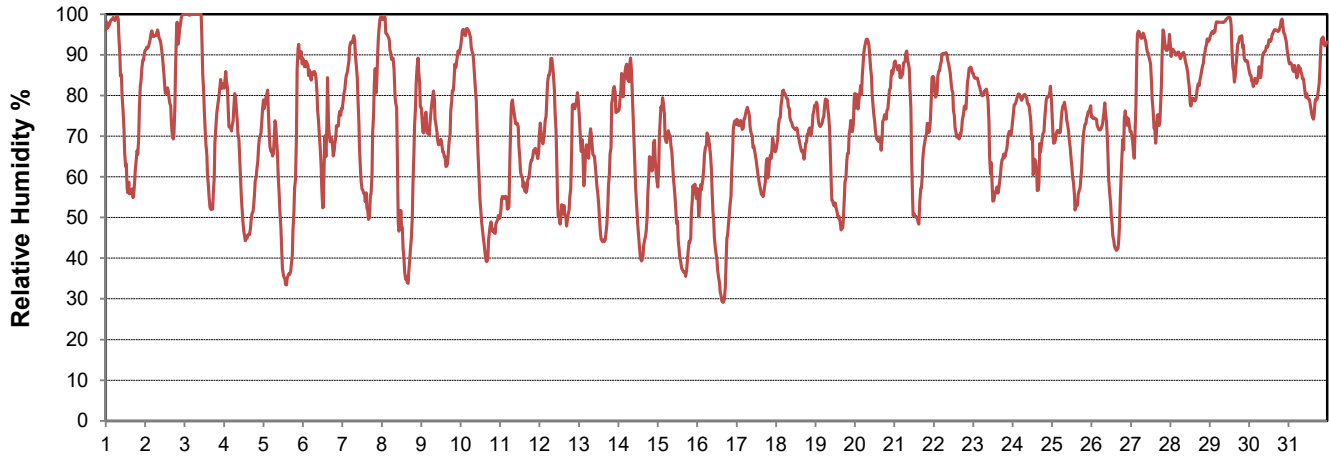
SRC proudly recognizes the following CRS supporters:



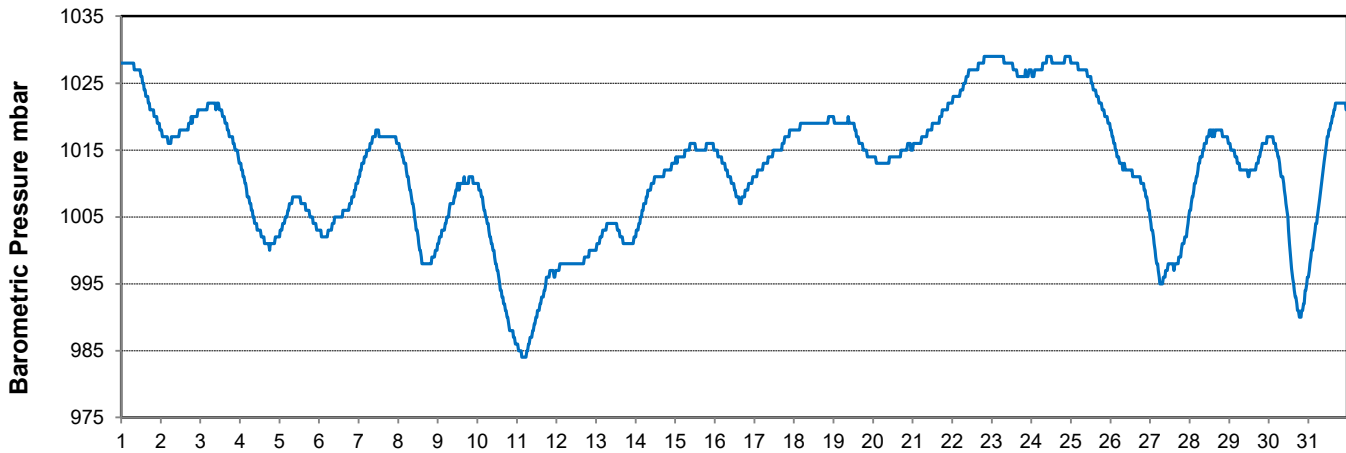
Temperature and Precipitation for October 2020



Relative Humidity for October 2020



Barometric Pressure Corrected to Sea Level for October 2020





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CONSERVATION LEARNING CENTRE

Saskatchewan 53.03°N 105.77°W Estab. 2011

Preliminary

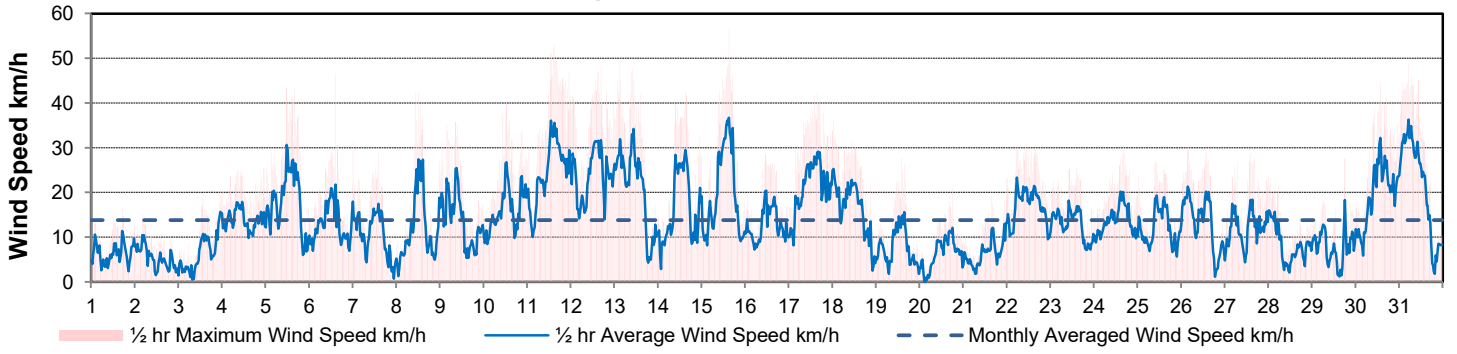
October 2020

Day	Wind Gust (10 meter)			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
1	16.8	S	17:11	6.1	1.5	6.5	7.5	9.0	10.0	10.5	10.0	7.5	6.1	11.6	52.8	9.4	5.4	
2	15.1	E	4:24	5.4	6.0	8.0	8.5	9.0	10.0	10.0	10.0	7.5	2.3	11.5	20.0	4.5	3.5	
3	20.7	S	23:19	6.5	2.0	6.5	7.0	8.5	9.5	10.0	10.0	7.5	4.4	11.4	38.6	8.1	6.3	
4	25.4	NW	23:13	14.0	9.5	7.5	8.0	8.5	9.5	10.0	10.0	7.5	2.2	11.3	19.4	6.0	5.1	
5	43.3	NW	11:47	17.8	9.5	9.0	9.0	9.5	9.5	10.0	9.5	7.5	7.7	11.3	68.3	10.9	3.4	
6	46.5	NNW	14:53	13.0	9.0	8.5	9.0	9.5	9.5	10.0	9.5	7.5	9.1	11.2	81.2	10.3	2.9	
7	31.1	WNW	0:18	10.7	4.5	7.0	8.0	9.0	9.5	9.5	9.5	7.5	8.8	11.1	79.0	9.8	2.9	
8	42.4	S	12:10	11.8	7.0	7.0	7.5	8.5	9.5	9.5	9.5	7.5	5.9	11.1	53.3	8.1	4.5	
9	35.7	NW	8:56	13.7	5.0	7.0	7.5	8.5	9.5	9.5	9.5	7.5	4.1	11.0	37.3	7.3	5.3	
10	40.4	S	12:35	16.1	5.0	6.5	7.0	8.0	9.0	9.5	9.5	7.5	8.0	10.9	73.2	10.0	3.1	
11	52.9	W	15:17	24.8	8.5	8.5	8.5	8.5	9.0	9.5	9.5	7.5	1.0	10.9	9.2	4.6	3.8	
12	48.4	WNW	16:31	23.6	2.0	6.0	7.0	8.0	9.0	9.5	9.5	7.5	9.0	10.8	83.3	10.1	2.1	
13	48.6	NW	3:20	21.0	2.0	5.5	6.0	7.5	8.5	9.5	9.5	7.5	9.7	10.7	90.4	10.6	2.0	
14	42.6	NW	15:09	16.5	-4.0	3.5	4.5	6.5	8.5	9.0	9.5	7.5	9.8	10.7	91.9	10.4	2.2	
15	56.7	NW	15:24	20.0	-3.5	2.5	3.5	5.5	8.0	9.0	9.0	7.5	9.7	10.6	91.6	10.3	2.1	
16	28.5	NW	11:15	12.9	-7.5	0.5	2.0	4.5	7.5	9.0	9.0	7.5	9.9	10.5	94.1	10.5	1.6	
17	42.1	NW	15:59	21.1	-5.0	1.0	2.0	4.0	6.5	8.5	9.0	7.5	1.2	10.5	11.5	5.6	4.7	
18	36.0	NW	0:31	16.2	-5.0	1.0	2.0	3.5	6.0	8.5	9.0	7.5	2.7	10.4	26.0	5.7	4.9	
19	27.7	S	14:05	7.8	-4.5	1.5	2.0	3.5	6.0	8.0	9.0	7.5	2.1	10.3	20.3	5.3	4.4	
20	21.6	NW	18:09	6.3	-6.0	1.0	1.5	3.0	5.5	8.0	8.5	7.5	1.9	10.3	18.5	3.7	3.4	
21	19.5	NNW	15:33	6.3	-5.0	1.0	2.0	3.5	5.5	7.5	8.5	7.5	6.9	10.2	67.7	8.6	3.0	
22	30.8	NW	11:04	17.0	-6.5	1.0	1.5	3.0	5.0	7.5	8.5	7.5	3.2	10.1	31.6	6.2	4.5	
23	25.6	NNW	14:57	12.8	-6.0	0.5	1.5	3.0	5.0	7.0	8.5	7.5	0.2	10.1	2.0	3.7	3.3	
24	30.6	NW	16:01	13.6	-6.5	0.0	1.0	2.5	5.0	7.0	8.0	7.5	0.3	10.0	3.0	4.0	3.5	
25	27.0	WNW	10:09	12.0	-6.0	0.0	0.5	2.0	4.5	7.0	8.0	7.5	0.0	9.9	0.0	3.9	3.6	
26	30.1	SW	3:52	13.3	-10.0	-1.0	0.0	1.5	4.5	6.5	8.0	7.5	8.8	9.9	89.2	8.3	1.3	
27	28.8	W	14:24	12.2	1.0	-0.5	0.0	1.5	4.0	6.5	8.0	7.5	0.4	9.8	4.1	3.3	2.9	
28	23.8	N	0:23	8.4	-3.0	1.0	1.5	2.0	4.0	6.0	7.5	7.5	0.0	9.7	0.0	2.3	2.1	
29	27.6	N	18:15	7.7	-3.5	1.0	1.5	2.5	4.0	6.0	7.5	7.5	1.8	9.7	18.6	3.3	2.4	
30	44.6	ESE	13:35	19.3	-3.0	1.5	1.5	2.5	4.0	6.0	7.5	7.5	0.0	9.6	0.0	0.7	0.6	
31	49.2	NW	5:10	21.3	-5.5	1.0	1.0	2.0	4.0	5.5	7.0	7.5	0.0	9.5	0.0	4.0	3.7	
Total													137.2	326.5	42.0	209.5	104.5	
Mean				13.8	-0.6	3.5	4.2	5.4	7.1	8.4	8.7	7.5						
Extreme	56.7	NW	15:24															
Date	15																	

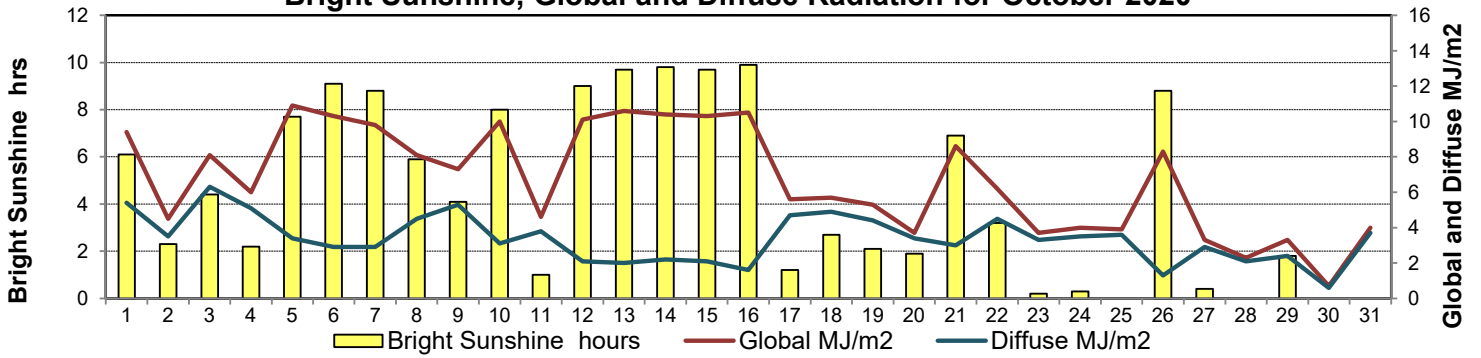
GLOSSARY OF TERMS

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	Diffuse is radiation reaching the earth's surface after having been scattered from the direct solar beam
Heating (18°C-T _m); if T _m ≥ 18°C then HDD = 0	Global is the sum of the direct solar and diffuse radiation
Cooling (T _m -18°C); if T _m ≤ 18°C then CDD = 0	Relative Humidity The ratio of the air's water vapour content of its water vapour capacity which changes with temperature.
T Trace of Precipitation	Air Pressure The force exerted by the weight of a column of air above a given point
SOG Depth of snow-on-the-ground	Wind Gust The daily highest instantaneous value recorded irrespective of direction and/or duration
Red Cell no data available	
Red Number manual calculation	

Wind Speed for October 2020

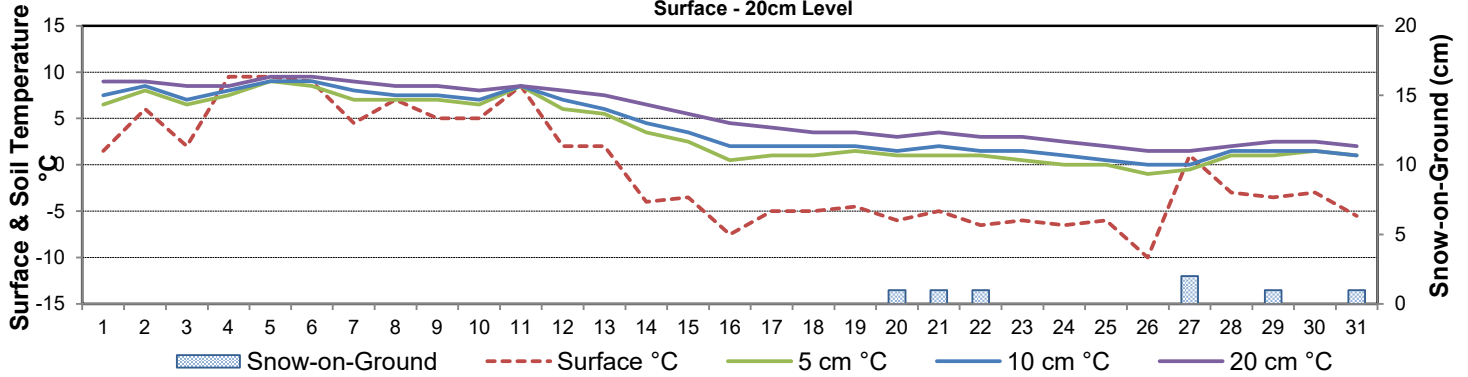


Bright Sunshine, Global and Diffuse Radiation for October 2020



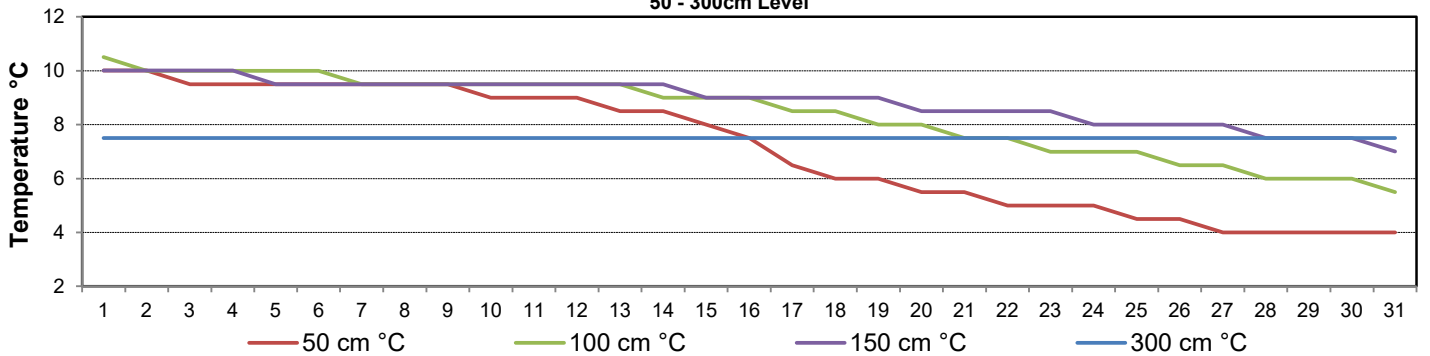
Soil Temperatures for October 2020

Surface - 20cm Level



Soil Temperatures for October 2020

50 - 300cm Level





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CONSERVATION LEARNING CENTRE

Saskatchewan 53.03°N 105.77°W Estab. 2011

Preliminary

October 2020

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	4.0	8.9	16.2	22.0	26.5	42.5												
2	4.0	8.3	11.4	22.0	27.0	42.5												
3	4.0	10.2	15.2	22.0	26.5	42.5												
4	10.0	13.3	20.2	21.5	26.5	42.5												
5	12.0	20.1	31.4	21.5	26.5	41.5												
6	9.0	14.9	32.9	21.5	26.5	41.5												
7	7.0	12.5	22.5	21.0	26.5	41.5												
8	8.0	20.3	31.0	21.5	26.5	42.0												
9	10.0	18.5	26.6	20.5	26.5	42.0												
10	11.0	18.7	30.8	21.0	26.0	41.0												
11	17.0	24.8	41.2	21.0	26.0	42.0												
12	17.0	22.7	34.1	19.5	24.5	41.0												
13	15.0	24.0	33.9	20.5	26.0	42.5												
14	12.0	21.8	33.3	19.5	24.0	41.0												
15	14.0	26.5	38.9	19.0	25.5	40.5												
16	9.0	15.9	22.9	19.5	25.5	41.5												
17	16.0	21.8	34.4	19.5	25.0	41.0												
18	13.0	19.2	30.6	19.5	25.0	41.0												
19	7.0	13.1	21.0	19.5	24.5	41.0												
20	5.0	9.5	15.1	19.0	24.5	41.5												
21	5.0	10.7	15.4	19.5	24.5	41.0												
22	13.0	17.4	23.9	19.5	24.5	41.0												
23	10.0	14.1	19.7	19.5	24.5	41.0												
24	11.0	15.5	22.7	19.5	24.5	40.5												
25	10.0	14.9	22.5	19.5	24.0	41.0												
26	11.0	16.9	24.8	19.0	24.0	40.5												
27	9.0	14.4	22.5	19.0	24.0	40.5												
28	7.0	12.9	18.1	19.5	24.0	40.0												
29	6.0	13.8	21.2	19.5	24.0	40.5												
30	15.0	23.1	31.2	19.5	24.0	40.5												
31	16.0	7.0	36.0	19.5	24.0	40.5												
Total																		
Mean				20	25	41.3												
Extreme	17.0	26.5	41.2	22	27	42.5												
Date	8.5	5.5	8.5	9	9	9												

Fall maintenance 16 Oct 2020

Replaced transducer ring in snow depth sensor

Replaced Wind Speed bearings

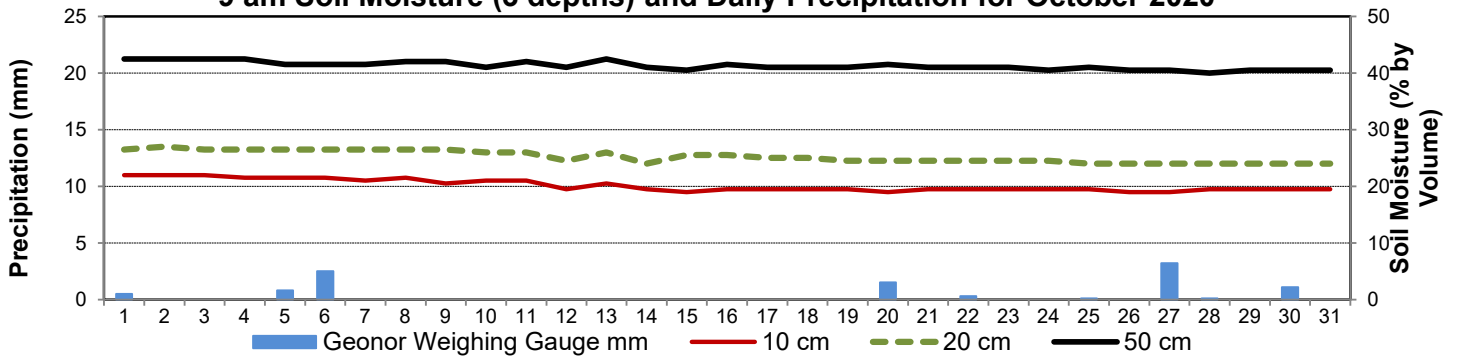
Reset Geonor for winter season

Replcaed desiccant in all required instrumnts

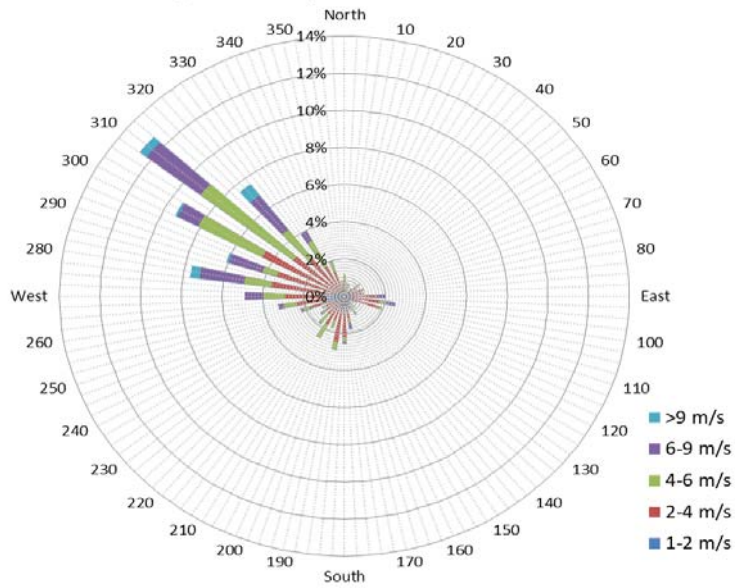
Pulled high end air temp sensor (HMP) because it was measuring temperature incorrectly. Will be returned to site when recalibration is completed.

SRC proudly recognizes the following CRS supporters:

9 am Soil Moisture (3 depths) and Daily Precipitation for October 2020



10 minute Average Wind Speed and Direction CLC Oct 2020



1/2 hr Maximum Wind Speed and Direction CLC Oct 2020

