



# SRC CLIMATE REFERENCE STATION DAILY DATA REPORT

## CONSERVATION LEARNING CENTRE

Saskatchewan 53.03°N 105.77°W Estab. 2011

Preliminary

**March 2020**

Day	Temperature			Degree-days			Precipitation			Relative Humidity		Station Pressure <i>corrected to sea level</i>	
	Max	Min	Mean	Growing	Heating	Cooling	Weighing Gauge	Notes:	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	-3.5	-13.9	-8.7	0.0	26.7	0.0	0.2		24	92	63	1013	999
2	2.5	-7.1	-2.3	0.0	20.3	0.0	0.9		25	96	73	1000	987
3	-2.3	-19.1	-10.7	0.0	28.7	0.0	0.9		26	98	64	1001	997
4	0.2	-10.6	-5.2	0.0	23.2	0.0	0.8		28	99	74	1011	996
5	-0.5	-4.4	-2.5	0.0	20.5	0.0	0.0		28	96	85	1022	1011
6	7.8	-4.3	1.8	0.0	16.2	0.0	0.0		28	89	58	1012	1005
7	-3.8	-16.3	-10.1	0.0	28.1	0.0	6.0		27	87	80	1016	1012
8	-13.7	-24.5	-19.1	0.0	37.1	0.0	0.2		29	89	65	1017	1014
9	-4.6	-26.0	-15.3	0.0	33.3	0.0	0.0		29	92	59	1016	1014
10	0.2	-22.2	-11.0	0.0	29.0	0.0	0.0		28	92	58	1015	1000
11	3.8	-6.5	-1.4	0.0	19.4	0.0	0.0		28	90	64	1007	997
12	-5.5	-12.0	-8.8	0.0	26.8	0.0	0.0		27	81	69	1022	1007
13	-12.0	-22.0	-17.0	0.0	35.0	0.0	0.0		26	81	55	1037	1022
14	-12.4	-23.2	-17.8	0.0	35.8	0.0	0.2		26	78	62	1040	1037
15	-7.0	-15.6	-11.3	0.0	29.3	0.0	1.4		29	89	62	1036	1022
16	-1.2	-21.8	-11.5	0.0	29.5	0.0	0.0		30	80	53	1022	1012
17	-7.5	-19.9	-13.7	0.0	31.7	0.0	0.0		34	84	48	1022	1015
18	-8.9	-30.6	-19.8	0.0	37.8	0.0	0.0		34	87	46	1023	1021
19	-4.0	-28.9	-16.5	0.0	34.5	0.0	0.0		34	89	31	1034	1023
20	-5.7	-25.2	-15.5	0.0	33.5	0.0	0.0		34	89	63	1034	1021
21	-4.0	-20.7	-12.4	0.0	30.4	0.0	0.0		33	95	65	1021	1014
22	2.8	-15.3	-6.3	0.0	24.3	0.0	0.0		33	96	55	1014	1009
23	-0.5	-12.1	-6.3	0.0	24.3	0.0	1.1		33	95	73	1009	1006
24	-0.1	-11.3	-5.7	0.0	23.7	0.0	0.9		33	95	51	1013	1005
25	-1.3	-16.8	-9.1	0.0	27.1	0.0	0.0		33	96	68	1013	1006
26	1.3	-16.4	-7.6	0.0	25.6	0.0	0.5		33	94	59	1006	995
27	3.5	-3.5	0.0	0.0	18.0	0.0	0.0		33	78	49	1007	995
28	3.9	-7.7	-1.9	0.0	19.9	0.0	0.0		33	84	58	1012	1000
29	-5.1	-11.3	-8.2	0.0	26.2	0.0	0.0		32	82	69	1013	1008
30	-2.6	-9.1	-5.9	0.0	23.9	0.0	0.2		32	93	73	1014	1007
31	-8.8	-16.9	-12.9	0.0	30.9	0.0	4.4		32	89	74	1018	1010
Total				0.0	850.7	0.0	17.7						
Avg	-2.9	-16.0	-9.4				44.3	Cumulative ppt					
Extreme	7.8	-30.6					6.0		34	99	31	1040	987
Date	6	18					7		17	4	19	14	2

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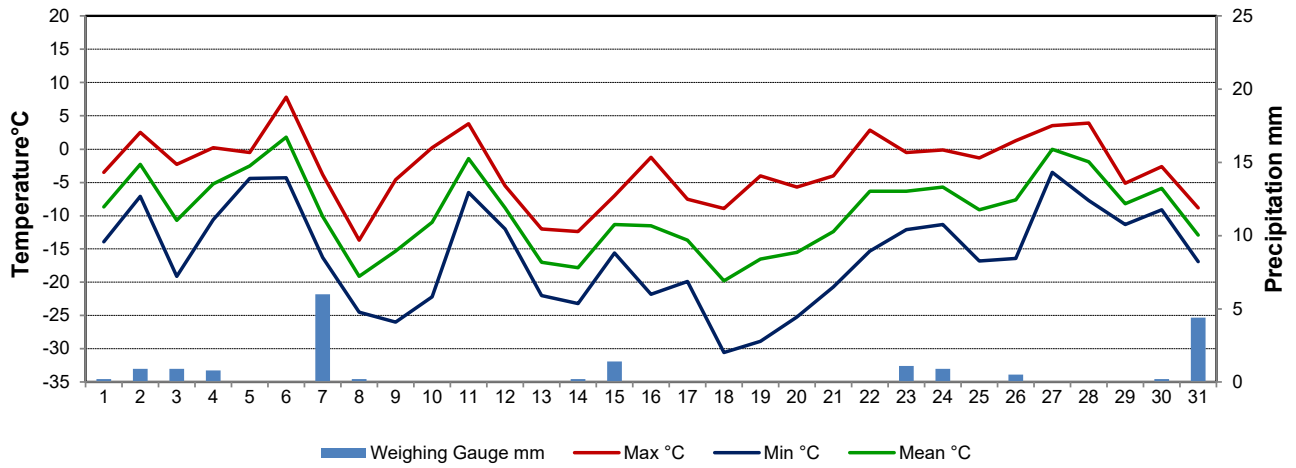
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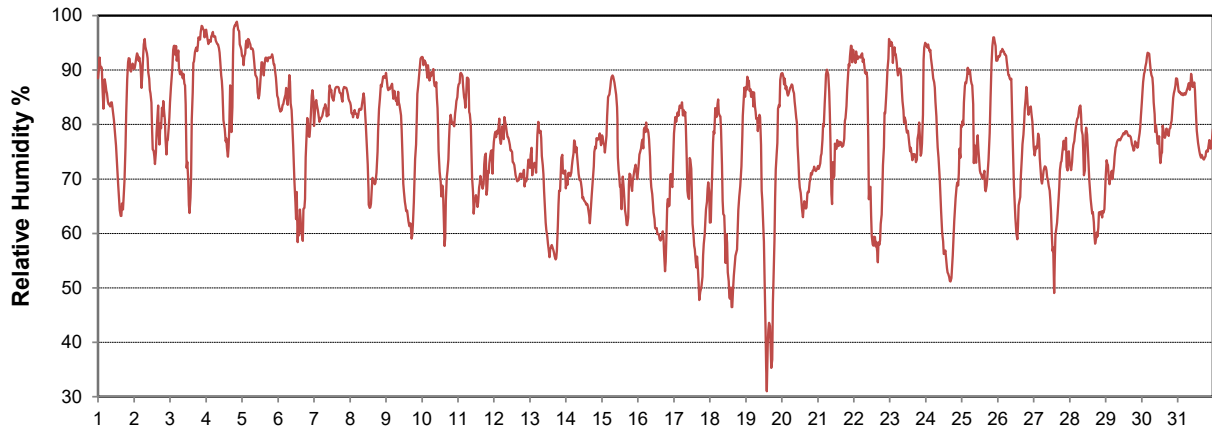


CAMPBELL SCIENTIFIC  
WHEN MEASUREMENTS MATTER

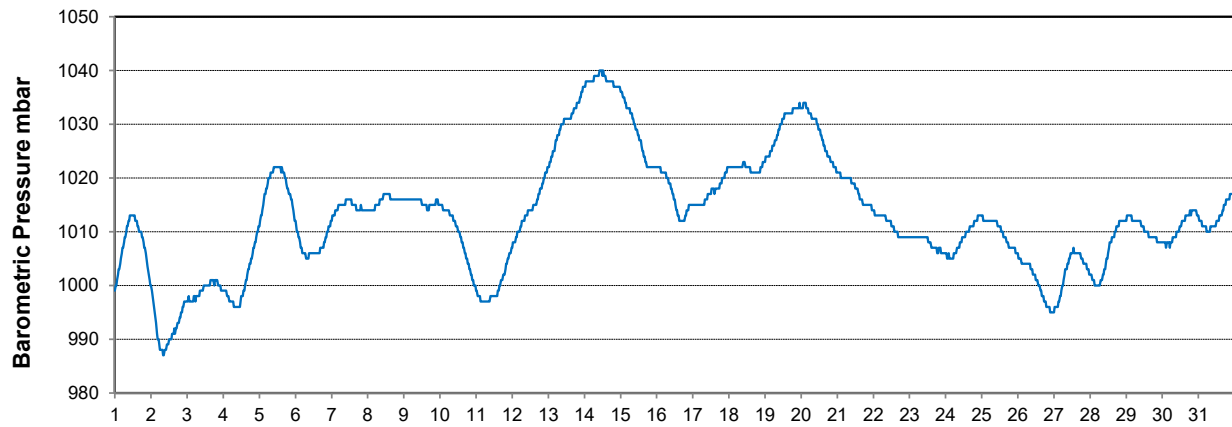
### Temperature and Precipitation for March 2020



### Relative Humidity for March 2020



### Barometric Pressure Corrected to Sea Level for March 2020





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## CONSERVATION LEARNING CENTRE

Saskatchewan 53.03°N 105.77°W Estab. 2011

Preliminary

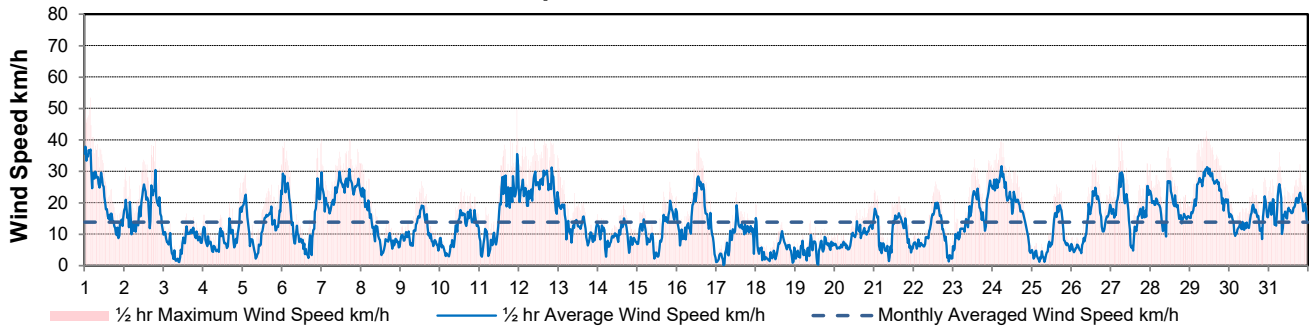
March 2020

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	Bright Sunshine Possible	% Possible	Global	Diffuse
	km/h			°C	°C	°C	°C	°C	°C	°C	°C	hours	hours		MJ/m <sup>2</sup>	MJ/m <sup>2</sup>
1	53.4	N	3:53	-9.0	-2.0	-2.0	-1.5	-1.0	0.0	1.0	3.5	7.9	10.9	72.4	11.7	3.3
2	40.2	NW	19:04	-5.0	-2.0	-2.0	-1.5	-1.0	0.0	1.0	3.5	3.6	11.0	32.8	9.3	6.0
3	16.5	SSW	14:18	-12.0	-2.0	-1.5	-1.5	-1.0	0.0	1.0	3.5	4.4	11.0	39.9	9.6	6.1
4	26.3	NW	23:15	-6.0	-2.0	-2.0	-1.5	-1.0	0.0	1.0	3.5	1.7	11.1	15.3	7.3	5.8
5	31.8	SSE	23:31	-3.0	-1.5	-1.5	-1.5	-1.0	0.0	1.0	3.5	0.0	11.2	0.0	8.2	7.5
6	39.4	S	1:34	-6.5	-1.5	-1.5	-1.5	-1.0	0.0	1.0	3.5	10.9	11.3	96.9	13.2	2.1
7	40.2	ENE	17:29	-8.5	-1.5	-1.5	-1.5	-1.0	0.0	1.0	3.5	0.0	11.3	0.0	5.1	4.7
8	32.5	ENE	0:57	-15.0	-1.5	-1.5	-1.5	-1.0	0.0	1.0	3.5	6.9	11.4	60.6	12.2	6.3
9	26.9	SW	13:14	-20.5	-2.0	-2.0	-1.5	-1.0	0.0	1.0	3.5	10.0	11.5	87.3	15.0	4.7
10	24.5	SSW	13:25	-16.5	-2.5	-2.0	-1.5	-1.0	0.0	1.0	3.5	8.0	11.5	69.4	14.6	4.7
11	49.8	NW	23:23	-7.0	-2.0	-2.0	-2.0	-1.0	0.0	1.0	3.5	8.6	11.6	74.1	13.4	4.4
12	40.5	NW	9:52	-7.5	-2.0	-2.0	-1.5	-1.0	0.0	1.0	3.5	7.9	11.7	67.7	13.7	4.8
13	34.2	N	0:07	-16.5	-2.0	-2.0	-1.5	-1.0	0.0	1.0	3.5	11.1	11.7	94.5	16.0	2.7
14	19.2	E	15:36	-16.0	-2.5	-2.5	-1.5	-1.0	0.0	1.0	3.5	4.6	11.8	39.0	12.1	8.7
15	26.7	W	20:10	-9.0	-2.5	-2.5	-2.0	-1.0	0.0	1.0	3.5	7.4	11.9	62.3	13.6	6.5
16	40.8	WSW	13:24	-17.5	-2.5	-2.5	-2.0	-1.0	0.0	1.0	3.5	11.1	12.0	92.9	15.4	5.1
17	23.4	NE	12:41	-9.5	-2.5	-2.5	-2.0	-1.0	0.0	1.0	3.5	9.6	12.0	79.9	15.0	7.2
18	19.5	NNE	0:29	-16.5	-2.5	-2.5	-2.0	-1.0	0.0	1.0	3.5	10.5	12.1	86.8	16.5	4.2
19	14.3	NNW	9:33	-16.5	-3.0	-2.5	-2.0	-1.0	0.0	1.0	3.5	11.1	12.2	91.3	17.2	3.9
20	20.1	S	22:49	-14.5	-3.0	-3.0	-2.5	-1.0	0.0	1.0	3.5	9.1	12.2	74.4	16.3	6.3
21	24.0	S	0:49	-12.0	-3.0	-3.0	-2.5	-1.0	0.0	1.0	3.5	11.0	12.3	89.4	17.7	5.0
22	26.7	SW	13:30	-11.0	-3.0	-3.0	-2.5	-1.5	0.0	1.0	3.5	11.3	12.4	91.4	17.7	5.8
23	33.8	E	13:04	-9.5	-2.5	-2.5	-2.0	-1.5	0.0	1.0	3.5	8.7	12.4	69.9	18.1	7.4
24	39.5	NE	5:28	-5.5	-2.5	-2.5	-2.0	-1.5	0.0	1.0	3.0	9.7	12.5	77.5	16.2	7.8
25	25.8	SSW	15:26	-9.0	-2.0	-2.0	-2.0	-1.0	0.0	1.0	3.5	9.6	12.6	76.3	16.8	8.8
26	33.4	SSW	14:47	-11.5	-2.0	-2.0	-2.0	-1.0	0.0	1.0	3.5	9.8	12.7	77.5	18.7	6.3
27	41.4	NW	5:22	-6.0	-2.0	-2.0	-2.0	-1.0	0.0	1.0	3.0	10.1	12.7	79.4	18.1	5.0
28	37.7	NW	11:03	-2.0	-2.0	-2.0	-1.5	-1.0	0.0	1.0	3.0	10.8	12.8	84.4	17.8	8.0
29	42.8	E	10:14	-11.0	-1.5	-1.5	-1.5	-1.0	0.0	1.0	3.0	10.3	12.9	80.1	18.5	6.2
30	27.9	NNE	21:33	-8.0	-1.5	-1.5	-1.5	-1.0	0.0	1.0	3.0	5.4	12.9	41.8	15.5	12.1
31	36.1	ENE	6:57	-10.5	-1.5	-1.5	-1.5	-1.0	0.0	1.0	3.0	0.6	13.0	4.6	12.4	10.6
Total												241.7	370.5	65.2	442.9	188.0
Mean				-10.6	-2.1	-2.1	-1.8	-1.0	0.0	1.0	3.4					
Extreme	53.4	N	3:53													
Date	1															

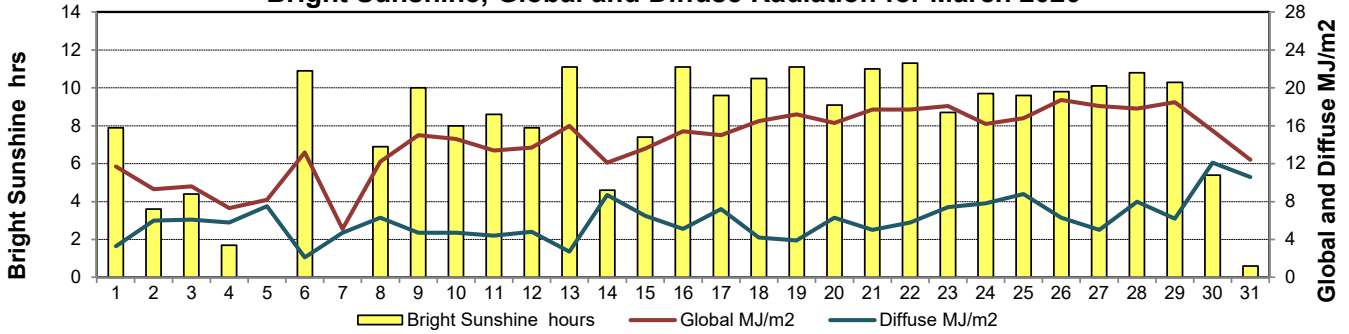
### GLOSSARY OF TERMS

<b>Degree-days</b>	<b>Radiation</b>
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	Diffuse is radiation reaching the earth's surface after having been scattered from the direct solar beam
Cooling (Tm-18°C); if Tm ≤ 18°C then CDD = 0	Global is the sum of the direct solar and diffuse radiation
T Trace of Precipitation	<b>Relative Humidity</b> 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	<b>Air Pressure</b> The force exerted by the weight of a column of air above a given point
Red Number manual calculation	<b>Wind Gust</b> The daily highest instantaneous value recorded irrespective of direction and/or duration

### Wind Speed for March 2020

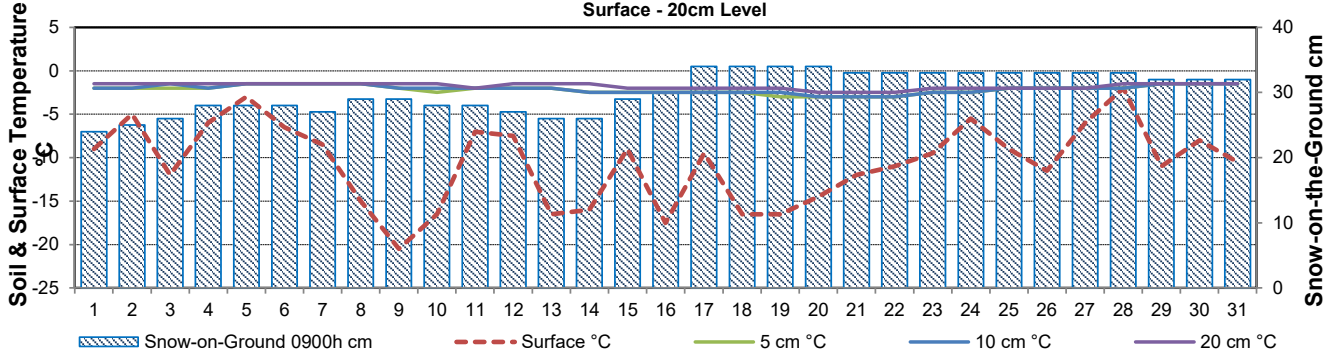


### Bright Sunshine, Global and Diffuse Radiation for March 2020



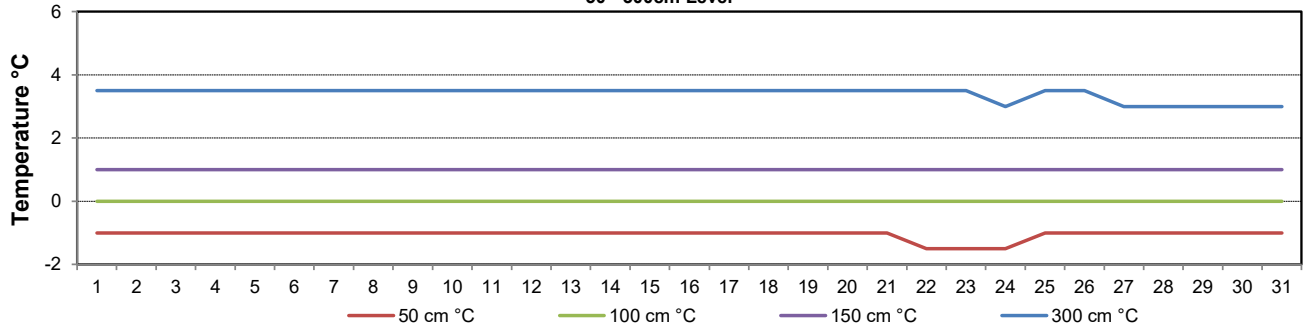
### Soil Temperatures for March 2020

Surface - 20cm Level



### Soil Temperatures for March 2020

50 - 300cm Level





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## CONSERVATION LEARNING CENTRE

Saskatchewan 53.03°N 105.77°W Estab. 2011

Preliminary

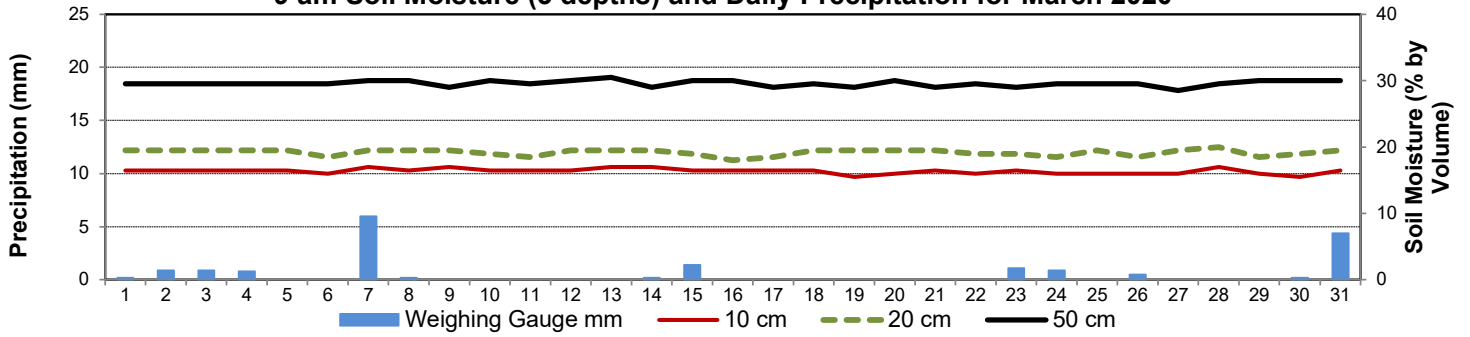
**March 2020**

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	18.0	29.4	41.4	16.5	19.5	29.5													
2	15.0	23.4	32.9	16.5	19.5	29.5													
3	6.0	11.2	15.6	16.5	19.5	29.5													
4	7.0	15.0	21.2	16.5	19.5	29.5													
5	10.0	17.9	25.6	16.5	19.5	29.5													
6	12.0	23.8	32.3	16.0	18.5	29.5													
7	19.0	25.3	35.2	17.0	19.5	30.0													
8	10.0	21.1	29.3	16.5	19.5	30.0													
9	9.0	17.1	23.7	17.0	19.5	29.0													
10	9.0	16.0	21.4	16.5	19.0	30.0													
11	13.0	27.7	39.6	16.5	18.5	29.5													
12	20.0	24.1	32.9	16.5	19.5	30.0													
13	10.0	16.7	26.0	17.0	19.5	30.5													
14	8.0	13.1	17.7	17.0	19.5	29.0													
15	10.0	16.7	22.0	16.5	19.0	30.0													
16	13.0	23.3	34.4	16.5	18.0	30.0													
17	7.0	16.1	19.9	16.5	18.5	29.0													
18	5.0	9.7	13.5	16.5	19.5	29.5													
19	5.0	8.5	11.4	15.5	19.5	29.0													
20	7.0	12.8	16.2	16.0	19.5	30.0													
21	8.0	13.6	20.4	16.5	19.5	29.0													
22	8.0	18.0	23.7	16.0	19.0	29.5													
23	12.0	20.9	28.3	16.5	19.0	29.0													
24	14.0	20.7	29.5	16.0	18.5	29.5													
25	7.0	17.6	23.5	16.0	19.5	29.5													
26	11.0	21.2	28.1	16.0	18.5	29.5													
27	14.0	23.0	32.1	16.0	19.5	28.5													
28	15.0	21.6	30.0	17.0	20.0	29.5													
29	20.0	26.0	37.7	16.0	18.5	30.0													
30	12.0	17.5	22.9	15.5	19.0	30.0													
31	15.0	2.0	29.0	16.5	19.5	30.0													
Total																			
Mean				16	19	29.6													
Extreme	20.0	29.4	41.4	17	20	30.5													
Date	0	0	0	New Record	0	0													

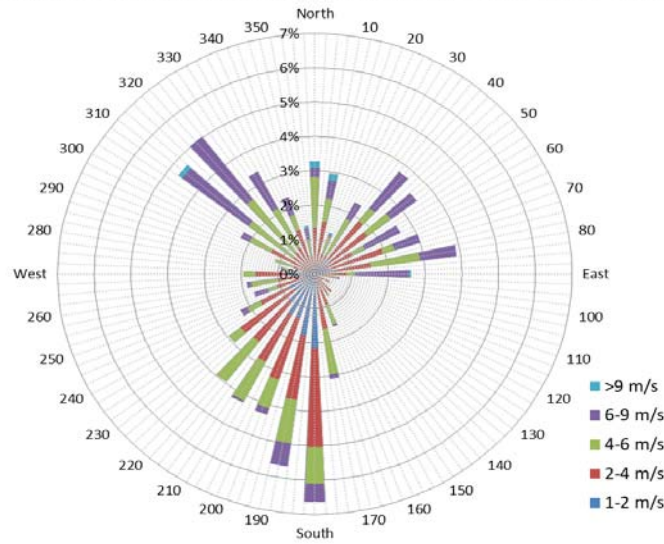
**SRC proudly recognizes the following CRS supporters:**



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



### 10 minute Average Wind Speed and Direction CLC Mar 2020



### 1/2 hr Maximum Wind Speed and Direction CLC Mar 2020

