



# SRC CLIMATE REFERENCE STATION DAILY DATA REPORT

## CONSERVATION LEARNING CENTRE

Saskatchewan 53.03°N 105.77°W Estab. 2011

Preliminary

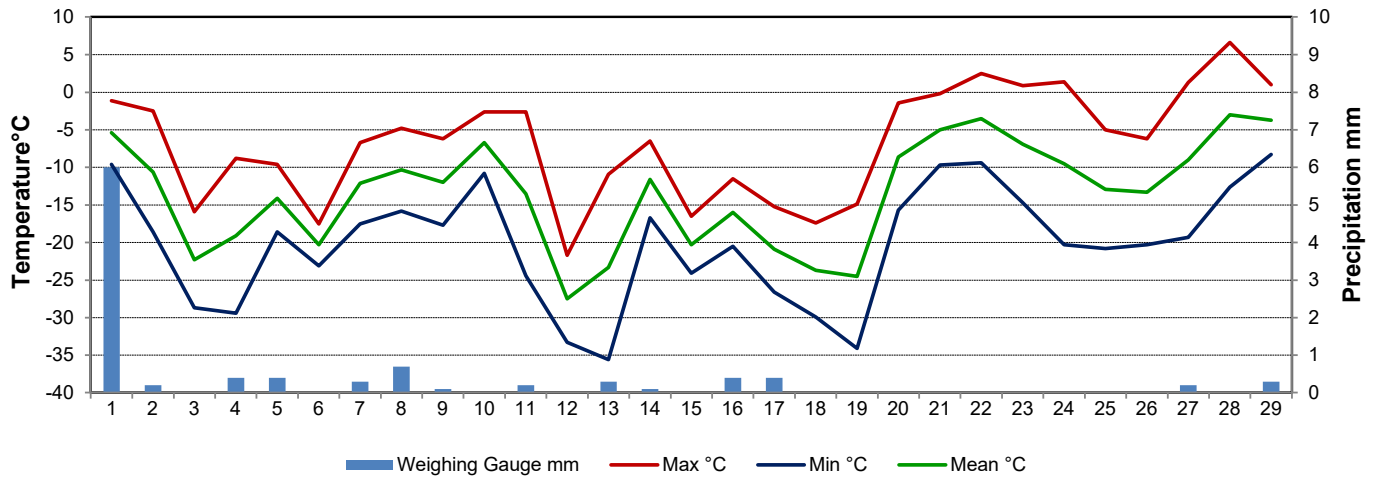
February 2020

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	-1.1	-9.6	-5.4	0.0	23.4	0.0	6.0		23	99	67	1003	988
2	-2.5	-18.6	-10.6	0.0	28.6	0.0	0.2		29	97	58	1013	996
3	-15.9	-28.7	-22.3	0.0	40.3	0.0	0.0		28	88	71	1021	1013
4	-8.8	-29.4	-19.1	0.0	37.1	0.0	0.4		28	88	79	1021	1003
5	-9.6	-18.6	-14.1	0.0	32.1	0.0	0.4		27	91	78	1006	1002
6	-17.5	-23.1	-20.3	0.0	38.3	0.0	0.0		27	87	75	1010	1005
7	-6.7	-17.5	-12.1	0.0	30.1	0.0	0.3		29	94	74	1009	1005
8	-4.8	-15.8	-10.3	0.0	28.3	0.0	0.7		29	95	76	1016	1005
9	-6.2	-17.7	-12.0	0.0	30.0	0.0	0.1		29	94	74	1016	1003
10	-2.6	-10.8	-6.7	0.0	24.7	0.0	0.0		29	93	68	1015	1008
11	-2.6	-24.4	-13.5	0.0	31.5	0.0	0.2		28	85	66	1021	1001
12	-21.7	-33.3	-27.5	0.0	45.5	0.0	0.0		25	82	53	1031	1022
13	-10.9	-35.6	-23.3	0.0	41.3	0.0	0.3		25	81	57	1026	997
14	-6.5	-16.7	-11.6	0.0	29.6	0.0	0.1		25	93	69	1007	993
15	-16.5	-24.1	-20.3	0.0	38.3	0.0	0.0		25	78	59	1013	1007
16	-11.5	-20.5	-16.0	0.0	34.0	0.0	0.4		25	90	69	1011	1006
17	-15.2	-26.6	-20.9	0.0	38.9	0.0	0.4		26	91	69	1026	1012
18	-17.4	-29.9	-23.7	0.0	41.7	0.0	0.0		25	84	52	1032	1027
19	-14.9	-34.1	-24.5	0.0	42.5	0.0	0.0		25	83	64	1032	1021
20	-1.4	-15.7	-8.6	0.0	26.6	0.0	0.0		25	84	61	1021	1008
21	-0.2	-9.7	-5.0	0.0	23.0	0.0	0.0		25	76	55	1009	1003
22	2.5	-9.4	-3.5	0.0	21.5	0.0	0.0		25	87	63	1005	1001
23	0.9	-14.7	-6.9	0.0	24.9	0.0	0.0		25	93	50	1011	1006
24	1.4	-20.3	-9.5	0.0	27.5	0.0	0.0		25	94	47	1027	1012
25	-5.0	-20.8	-12.9	0.0	30.9	0.0	0.0		25	92	66	1033	1026
26	-6.2	-20.3	-13.3	0.0	31.3	0.0	0.0		25	95	76	1026	1014
27	1.3	-19.3	-9.0	0.0	27.0	0.0	0.2		25	97	72	1014	1011
28	6.6	-12.6	-3.0	0.0	21.0	0.0	0.0		25	98	48	1012	1005
29	1.0	-8.3	-3.7	0.0	21.7	0.0	0.3		25	96	72	1005	994
Total				0.0	911.6	0.0	10.0						
Avg	-6.6	-20.2	-13.4				26.6	Cumulative ppt					
Extreme	6.6	-35.6					6.0		29	99	47	1033	988
Date	28	13					1		2	1	24	25	1

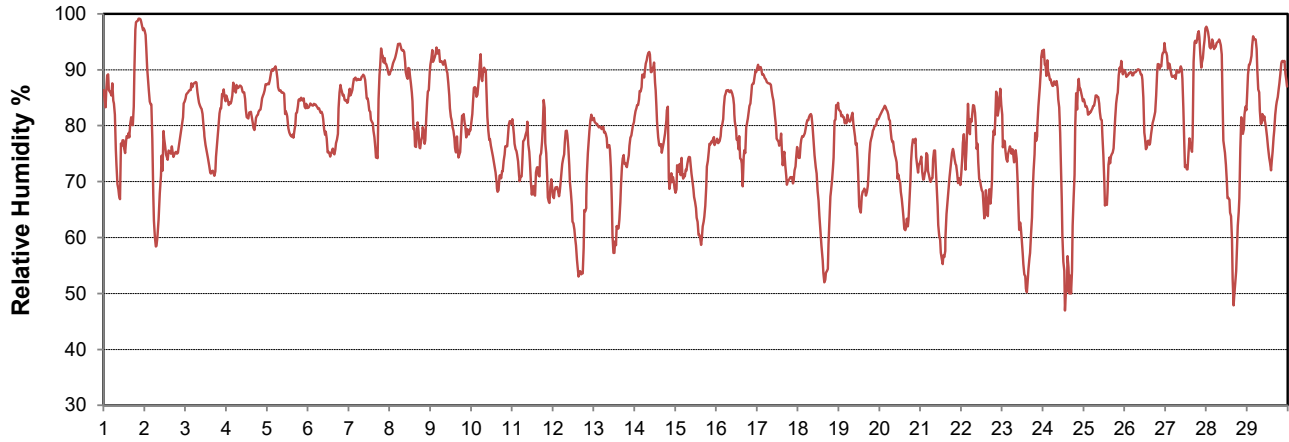
SRC proudly recognizes the following CRS supporters:



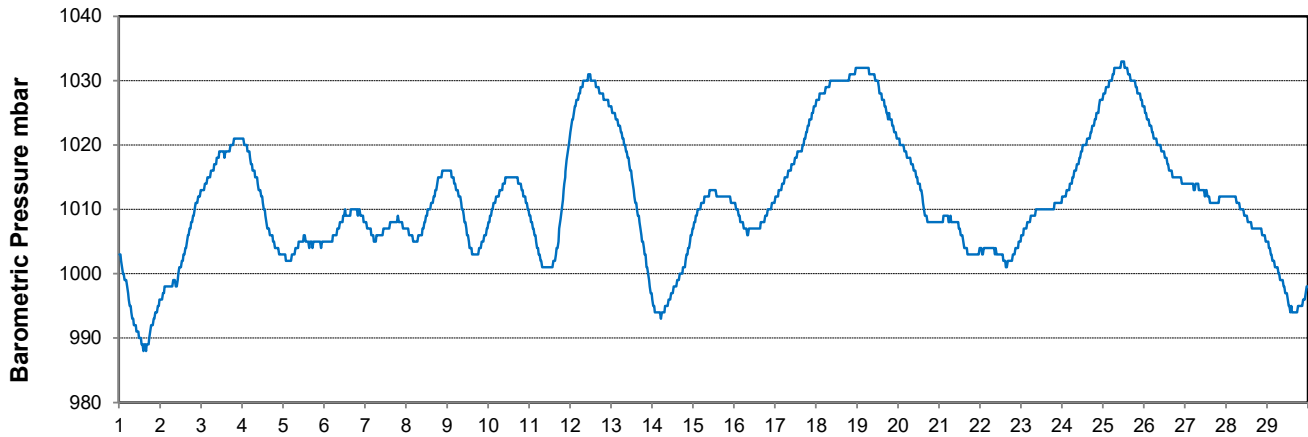
### Temperature and Precipitation for February 2020



### Relative Humidity for February 2020



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





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Preliminary

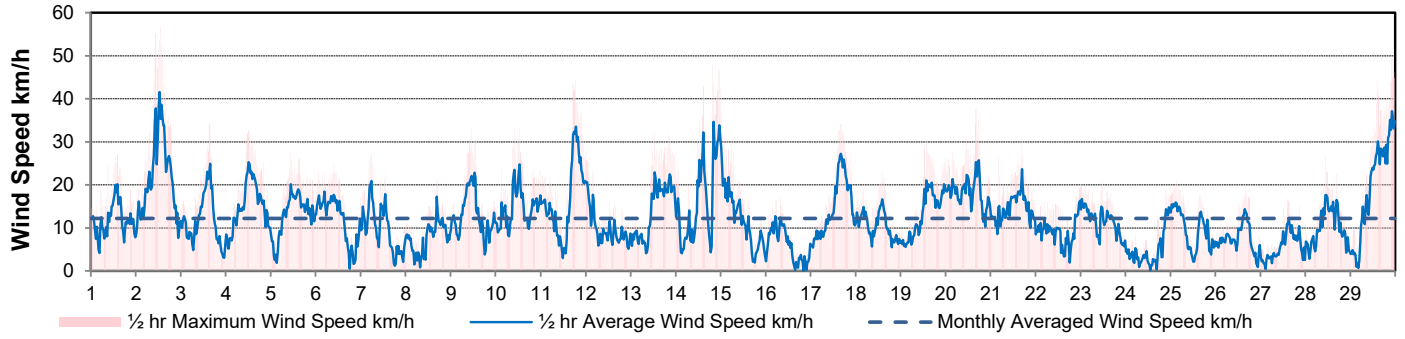
February 2020

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	27.3	E	14:29	-3.5	-1.5	-1.5	-1.5	-1.0	0.5	1.5	4.5	1.5	9.0	16.7	4.0	3.6
2	56.8	WNW	13:30	-6.0	-1.5	-1.5	-1.5	-1.0	0.0	1.5	4.0	6.5	9.1	71.7	5.7	3.9
3	34.2	NW	15:24	-15.0	-1.5	-1.5	-1.0	-0.5	0.5	1.5	4.5	4.5	9.1	49.3	5.3	3.2
4	32.7	SW	12:03	-16.0	-2.0	-1.5	-1.5	-0.5	0.5	1.5	4.5	6.9	9.2	75.2	8.0	2.3
5	27.4	E	10:34	-6.0	-2.0	-2.0	-1.5	-0.5	0.5	1.5	4.5	0.1	9.2	1.1	4.5	4.1
6	24.7	ESE	9:54	-9.5	-2.0	-2.0	-1.5	-0.5	0.5	1.5	4.5	6.5	9.3	69.8	6.8	2.1
7	27.5	SW	5:34	-9.0	-2.0	-2.0	-1.5	-0.5	0.5	1.5	4.0	6.2	9.4	66.2	6.6	4.0
8	21.7	NW	16:56	-6.0	-2.0	-2.0	-1.5	-1.0	0.5	1.5	4.0	1.5	9.4	15.9	4.3	3.8
9	33.2	SSW	11:03	-13.0	-2.0	-2.0	-1.5	-1.0	0.5	1.5	4.0	6.1	9.5	64.2	6.7	3.6
10	33.2	NW	10:03	-7.5	-2.0	-2.0	-1.5	-1.0	0.5	1.5	4.0	4.5	9.6	47.1	6.8	3.2
11	44.6	NE	18:48	-7.0	-2.0	-2.0	-1.5	-1.0	0.5	1.5	4.0	2.6	9.6	27.0	5.1	4.1
12	26.4	NNE	1:33	-18.5	-2.0	-2.0	-1.5	-0.5	0.5	1.5	4.0	9.4	9.7	97.0	9.1	1.6
13	32.3	SSE	12:45	-18.0	-2.5	-2.5	-2.0	-0.5	0.5	1.5	4.0	6.8	9.8	69.7	8.6	3.3
14	47.8	NNW	19:59	-9.0	-3.0	-3.0	-2.0	-1.0	0.5	1.5	4.0	3.0	9.8	30.5	6.6	4.2
15	36.9	NW	0:12	-22.0	-3.0	-3.0	-2.0	-1.0	0.5	1.5	4.0	8.2	9.9	82.9	8.5	1.9
16	17.1	ENE	7:58	-9.5	-3.0	-3.0	-2.5	-1.0	0.5	1.5	4.0	0.4	10.0	4.0	5.4	4.9
17	34.2	NW	15:38	-11.5	-3.0	-3.0	-2.5	-1.0	0.5	1.5	4.0	3.5	10.0	34.9	7.2	5.5
18	22.9	NW	14:09	-19.5	-3.0	-3.0	-2.5	-1.0	0.5	1.5	4.0	9.7	10.1	96.1	10.9	1.9
19	30.1	SSW	13:38	-22.0	-3.5	-3.0	-2.5	-1.0	0.5	1.5	4.0	9.5	10.2	93.6	10.9	2.2
20	37.6	SW	16:01	-15.5	-3.5	-3.5	-2.5	-1.0	0.5	1.5	4.0	9.8	10.2	95.9	10.3	2.1
21	31.7	SW	16:37	-10.0	-3.0	-3.0	-2.5	-1.0	0.0	1.5	4.0	7.7	10.3	74.8	8.7	3.8
22	19.3	W	23:31	-8.5	-2.5	-2.5	-2.5	-1.0	0.0	1.5	4.0	1.3	10.4	12.5	6.6	6.0
23	20.9	WSW	11:32	-9.5	-2.5	-2.5	-2.0	-1.0	0.0	1.5	4.0	10.1	10.4	96.9	10.9	1.8
24	18.6	NNW	21:29	-12.0	-2.5	-2.5	-2.0	-1.0	0.0	1.5	4.0	9.5	10.5	90.6	11.4	2.2
25	21.0	NW	3:16	-9.5	-2.5	-2.5	-2.0	-1.0	0.0	1.5	4.0	6.5	10.6	61.6	9.8	4.1
26	18.7	SSE	16:27	-12.0	-2.5	-2.5	-2.0	-1.0	0.0	1.5	4.0	2.3	10.6	21.6	7.6	6.3
27	16.7	SW	14:57	-13.0	-2.5	-2.5	-2.0	-1.0	0.0	1.5	4.0	3.7	10.7	34.6	9.0	5.2
28	26.8	SW	10:49	-8.0	-2.5	-2.0	-2.0	-1.0	0.0	1.5	3.5	9.1	10.8	84.5	12.1	3.4
29	49.4	NE	22:16	-3.5	-2.0	-2.0	-2.0	-1.0	0.0	1.0	3.5	2.7	10.8	24.9	8.2	5.3
Total												160.1	276.2	58.0	225.6	103.6
Mean				-11.4	-2.4	-2.3	-1.9	-0.9	0.3	1.5	4.1					
Extreme	56.8	WNW	13:30													
Date	2															

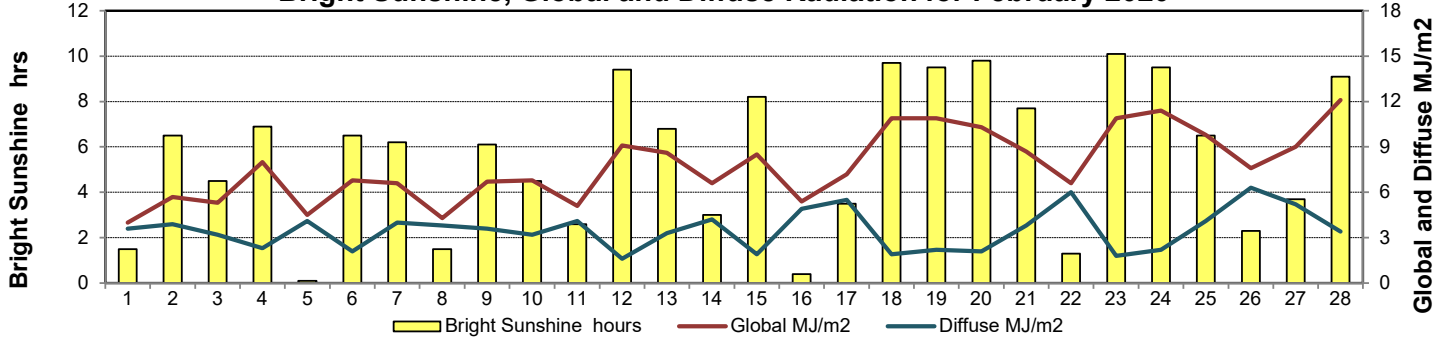
### GLOSSARY OF TERMS

<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.
<b>SOG</b> Depth of snow-on-the-ground	
<b>Red Cell</b> no data available	<b>Air Pressure</b> The force exerted by the weight of a column of air above a given point
<b>Red Number</b> manual calculation	<b>Wind Gust</b> The daily highest instantaneous value recorded irrespective of direction and/or duration

### Wind Speed for February 2020

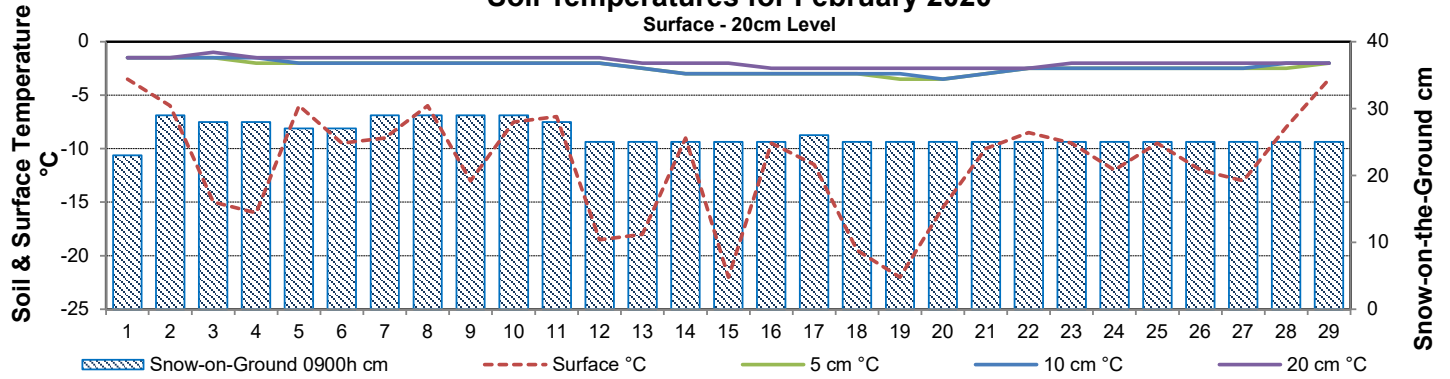


### Bright Sunshine, Global and Diffuse Radiation for February 2020



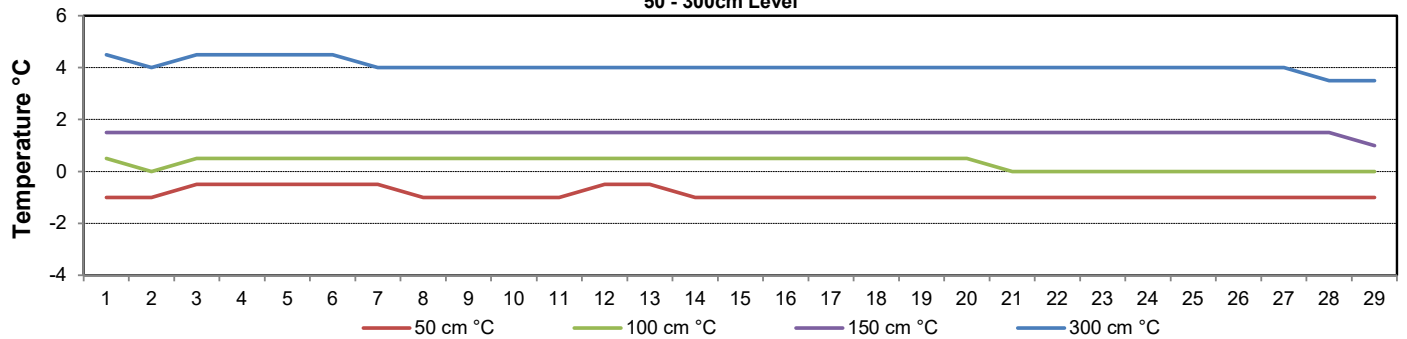
### Soil Temperatures for February 2020

Surface - 20cm Level



### Soil Temperatures for February 2020

50 - 300cm Level





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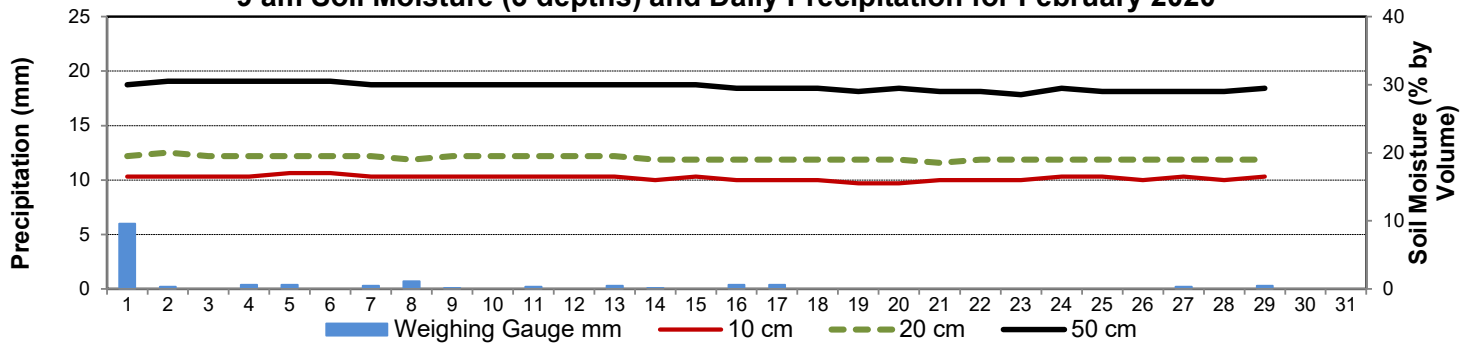
**February 2020**

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	9.0	16.5	22.0	16.5	19.5	30.0																
2	17.0	32.4	43.3	16.5	20.0	30.5																
3	9.0	19.7	27.5	16.5	19.5	30.5																
4	12.0	22.2	29.6	16.5	19.5	30.5																
5	11.0	17.3	22.7	17.0	19.5	30.5																
6	10.0	15.1	20.4	17.0	19.5	30.5																
7	9.0	18.5	24.8	16.5	19.5	30.0																
8	6.0	13.1	16.8	16.5	19.0	30.0																
9	10.0	19.9	26.4	16.5	19.5	30.0																
10	12.0	19.5	28.5	16.5	19.5	30.0																
11	13.0	25.2	34.4	16.5	19.5	30.0																
12	8.0	15.9	21.6	16.5	19.5	30.0																
13	10.0	18.3	26.2	16.5	19.5	30.0																
14	13.0	26.9	37.3	16.0	19.0	30.0																
15	10.0	22.2	29.8	16.5	19.0	30.0																
16	6.0	11.1	15.4	16.0	19.0	29.5																
17	11.0	21.4	27.7	16.0	19.0	29.5																
18	8.0	14.3	19.9	16.0	19.0	29.5																
19	11.0	18.6	25.4	15.5	19.0	29.0																
20	16.0	22.1	30.0	15.5	19.0	29.5																
21	12.0	20.8	28.7	16.0	18.5	29.0																
22	7.0	11.3	16.8	16.0	19.0	29.0																
23	9.0	13.0	17.2	16.0	19.0	28.5																
24	4.0	11.6	14.9	16.5	19.0	29.5																
25	8.0	13.9	18.9	16.5	19.0	29.0																
26	6.0	11.4	16.2	16.0	19.0	29.0																
27	5.0	11.0	16.2	16.5	19.0	29.0																
28	8.0	15.3	20.6	16.0	19.0	29.0																
29	15.0	26.5	36.0	16.5	19.0	29.5																
Total																						
Mean				16	19	29.7																
Extreme	17.0	32.4	43.3	17	20	30.5																
Date	0	0	0	0	0	0																

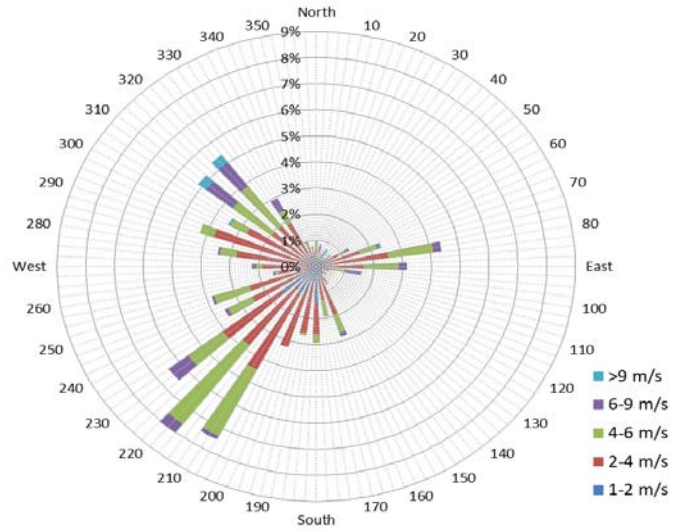
**SRC proudly recognizes the following CRS supporters:**



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



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



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

