



SRC CLIMATE REFERENCE STATION DAILY DATA REPORT

CONSERVATION LEARNING CENTRE

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

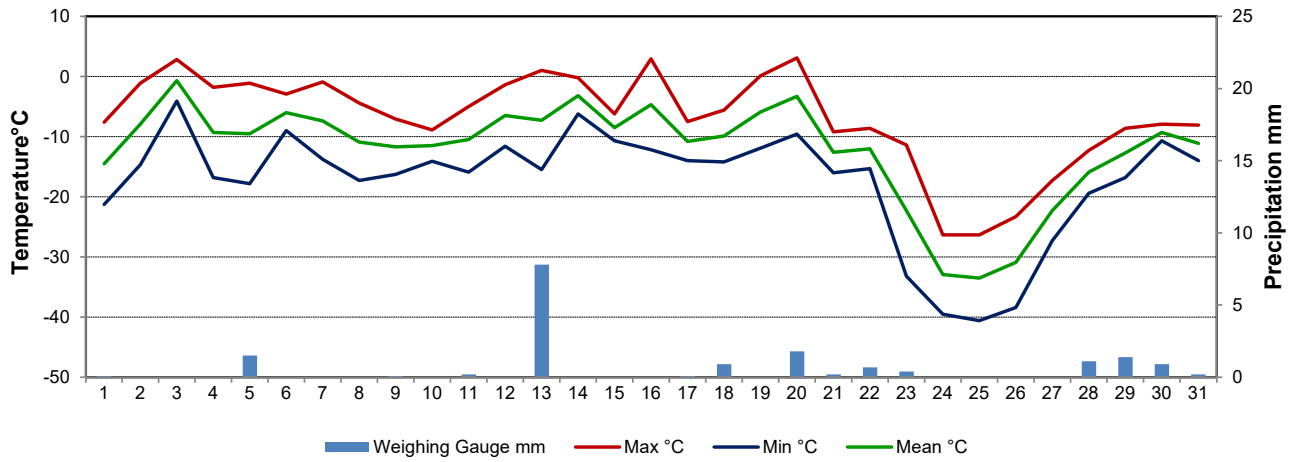
Preliminary **January 2021**

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	-7.6	-21.3	-14.5	0.0	32.5	0.0	0.1		30	93	72	1012	1003
2	-1.1	-14.7	-7.9	0.0	25.9	0.0	0.0		30	95	75	1002	992
3	2.8	-4.1	-0.7	0.0	18.7	0.0	0.0		30	87	74	997	987
4	-1.8	-16.8	-9.3	0.0	27.3	0.0	0.0		30	94	63	1006	997
5	-1.1	-17.8	-9.5	0.0	27.5	0.0	1.5		30	98	85	1012	1002
6	-2.9	-9.0	-6.0	0.0	24.0	0.0	0.0		31	99	78	1013	1007
7	-0.9	-13.8	-7.4	0.0	25.4	0.0	0.0		31	96	63	1025	1012
8	-4.4	-17.3	-10.9	0.0	28.9	0.0	0.0		31	95	72	1026	1023
9	-7.1	-16.3	-11.7	0.0	29.7	0.0	0.1		31	95	83	1024	1018
10	-8.9	-14.1	-11.5	0.0	29.5	0.0	0.0		31	94	92	1018	1011
11	-5.0	-15.9	-10.5	0.0	28.5	0.0	0.2		31	93	76	1011	1004
12	-1.4	-11.6	-6.5	0.0	24.5	0.0	0.0		31	93	70	1004	998
13	1.0	-15.5	-7.3	0.0	25.3	0.0	7.8		31	99	85	998	980
14	-0.2	-6.2	-3.2	0.0	21.2	0.0	0.0		31	87	79	1022	998
15	-6.2	-10.7	-8.5	0.0	26.5	0.0	0.0		31	96	88	1023	1009
16	2.9	-12.2	-4.7	0.0	22.7	0.0	0.0		31	94	70	1013	1007
17	-7.5	-14.0	-10.8	0.0	28.8	0.0	0.1		31	94	87	1013	1007
18	-5.6	-14.2	-9.9	0.0	27.9	0.0	0.9		31	94	79	1023	1011
19	0.1	-11.9	-5.9	0.0	23.9	0.0	0.0		31	93	75	1023	991
20	3.1	-9.6	-3.3	0.0	21.3	0.0	1.8		35	98	71	1008	988
21	-9.2	-16.0	-12.6	0.0	30.6	0.0	0.2		35	90	72	1017	1008
22	-8.6	-15.3	-12.0	0.0	30.0	0.0	0.7		35	93	74	1016	1007
23	-11.4	-33.2	-22.3	0.0	40.3	0.0	0.4		35	93	73	1020	1008
24	-26.3	-39.5	-32.9	0.0	50.9	0.0	0.0		34	82	71	1022	1019
25	-26.3	-40.6	-33.5	0.0	51.5	0.0	0.0		34	81	72	1026	1022
26	-23.3	-38.4	-30.9	0.0	48.9	0.0	0.0		34	82	73	1025	1023
27	-17.3	-27.3	-22.3	0.0	40.3	0.0	0.0		35	86	72	1023	1020
28	-12.3	-19.4	-15.9	0.0	33.9	0.0	1.1		36	89	83	1020	1016
29	-8.6	-16.8	-12.7	0.0	30.7	0.0	1.4		41	93	85	1016	1009
30	-7.9	-10.7	-9.3	0.0	27.3	0.0	0.9		40	93	83	1020	1010
31	-8.1	-14.0	-11.1	0.0	29.1	0.0	0.2		41	95	85	1023	1020
Total				0.0	933.5	0.0	17.4						
Avg	-6.8	-17.4	-12.1				17.4	Cumulative ppt					
Extreme	3.1	-40.6					7.8		41	99	63	1026	980
Date	20	25					13		29	6	4	8	13

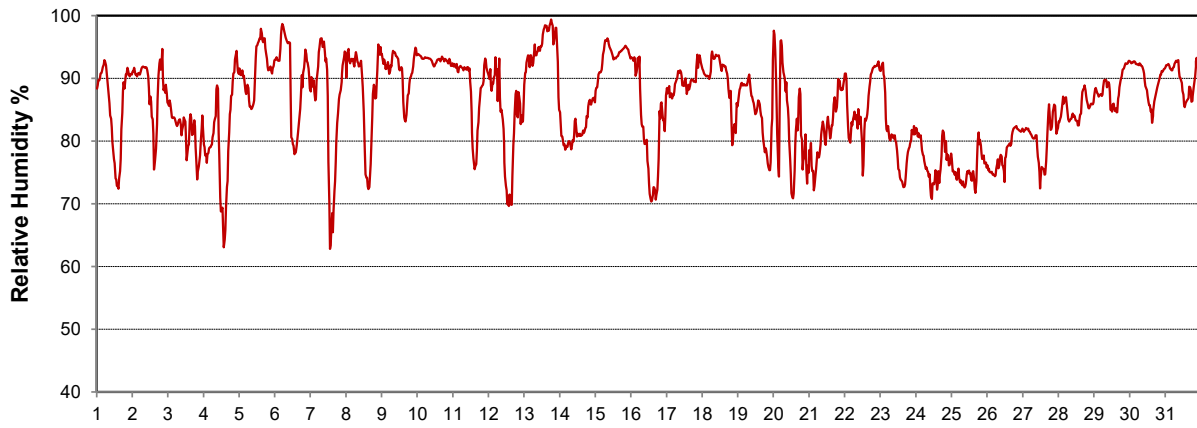
SRC proudly recognizes the following CRS supporters:



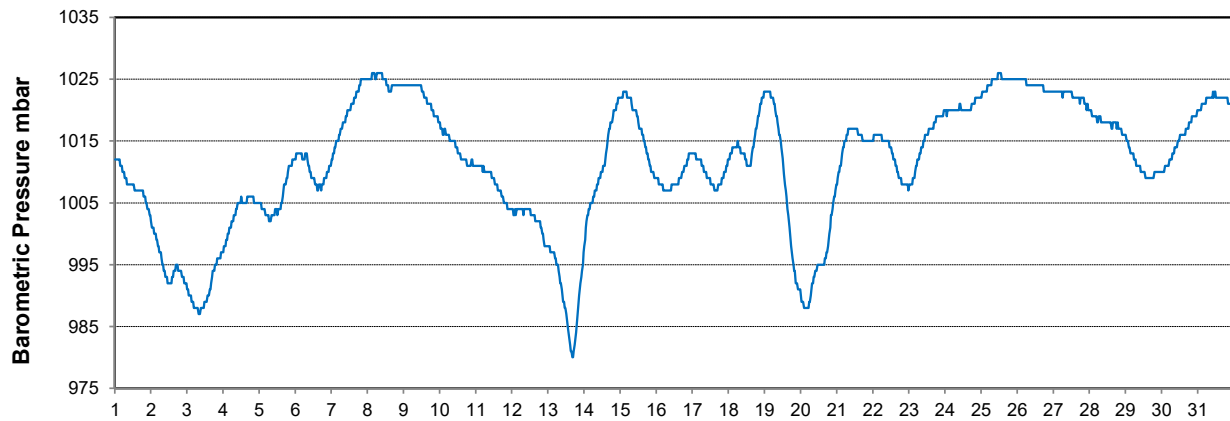
Temperature and Precipitation for January 2021



Relative Humidity for January 2021



Barometric Pressure Corrected to Sea Level for January 2021





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CONSERVATION LEARNING CENTRE

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

Preliminary

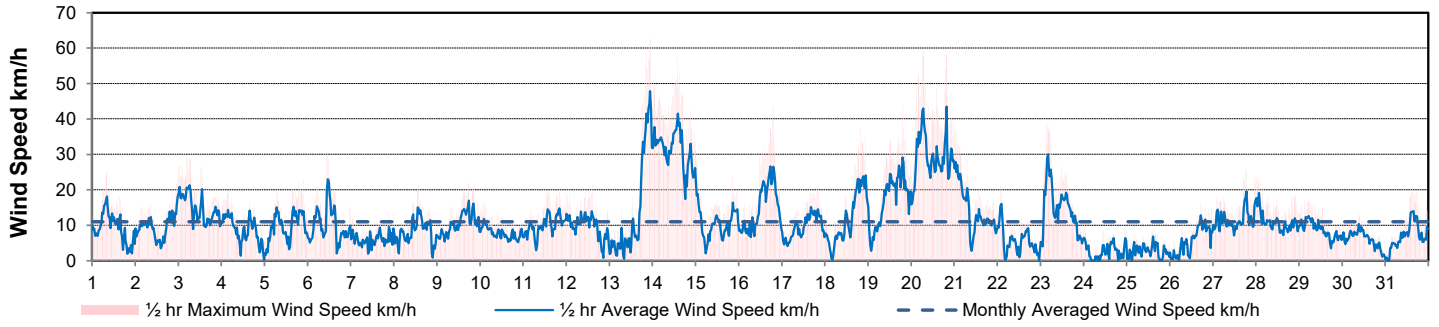
January 2021

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	Possible	% Possible	Global
	km/h			km/h	°C	°C	°C	°C	°C	°C	°C	°C	hours	hours		MJ/m ²	MJ/m ²
1	24.8	SSW	8:14	9.2	-10.5	-1.5	-1.5	-0.5	0.5	2.0	3.5	5.5	6.6	7.7	85.9	4.3	1.3
2	23.4	SSW	23:41	9.5	-10.0	-1.5	-1.0	-0.5	0.5	2.0	3.5	5.5	4.2	7.7	54.5	3.5	1.5
3	29.7	SSW	4:50	14.5	-1.0	-1.5	-1.5	-0.5	0.5	2.0	3.5	5.5	2.6	7.7	33.6	3.0	1.5
4	19.9	WSW	3:26	8.5	-11.0	-1.0	-1.0	-0.5	0.5	2.0	3.5	5.5	7.0	7.8	90.2	3.7	0.8
5	22.6	WNW	21:53	9.6	-7.5	-1.0	-1.0	-0.5	0.5	2.0	3.5	5.5	0.0	7.8	0.0	1.6	1.5
6	30.9	SSW	11:19	10.0	-7.0	-1.0	-1.0	-0.5	0.5	2.0	3.0	5.5	3.2	7.8	40.9	3.2	2.4
7	13.8	SW	23:55	6.1	-12.5	-1.0	-1.0	-0.5	0.5	2.0	3.0	5.5	6.3	7.9	80.3	5.0	1.4
8	21.4	SSW	13:36	8.2	-14.0	-1.0	-1.0	-0.5	0.5	2.0	3.0	5.5	6.3	7.9	79.9	4.9	1.2
9	21.8	SSW	17:35	10.4	-11.5	-1.5	-1.0	-0.5	0.5	2.0	3.0	5.5	5.6	7.9	70.8	4.5	1.3
10	16.2	SW	2:31	7.8	-11.0	-1.5	-1.0	-0.5	0.5	2.0	3.0	5.5	2.9	8.0	36.5	3.0	1.8
11	19.7	SW	13:08	10.0	-13.0	-1.5	-1.0	-0.5	0.5	2.0	3.0	5.5	1.7	8.0	21.3	2.8	1.9
12	21.5	SW	14:39	9.6	-9.0	-1.5	-1.0	-0.5	0.5	2.0	3.0	5.0	7.0	8.0	87.2	4.8	1.0
13	62.5	NNW	23:05	14.1	-10.0	-1.5	-1.0	-0.5	0.5	2.0	3.0	5.0	0.8	8.1	9.9	1.9	1.8
14	57.1	NNW	14:14	31.4	-3.5	-1.5	-1.5	-1.0	0.0	1.5	2.5	4.5	0.0	8.1	0.0	1.9	1.8
15	31.1	NW	0:03	10.4	-7.5	-1.0	-1.0	-0.5	0.5	1.5	3.0	5.0	0.1	8.2	1.2	2.1	2.0
16	43.3	NNW	19:00	14.8	-6.0	-1.0	-1.0	-0.5	0.5	1.5	3.0	5.0	2.8	8.2	34.2	3.7	1.7
17	21.0	ENE	20:01	9.4	-7.5	-1.0	-1.0	-0.5	0.5	1.5	3.0	5.0	2.6	8.2	31.6	3.7	2.8
18	37.3	N	19:51	12.0	-10.0	-1.0	-1.0	-0.5	0.5	1.5	3.0	5.0	0.1	8.3	1.2	2.2	2.1
19	43.6	SW	19:25	17.2	-10.0	-1.0	-1.0	-0.5	0.5	1.5	3.0	5.0	1.2	8.3	14.4	3.0	2.6
20	59.5	WNW	6:57	29.3	0.0	-1.0	-1.0	-0.5	0.0	1.5	2.5	4.5	2.3	8.4	27.4	3.7	2.5
21	37.0	NNW	0:52	14.0	-11.0	-1.0	-0.5	-0.5	0.5	1.5	3.0	5.0	0.2	8.4	2.4	3.3	3.0
22	21.1	NE	2:00	5.4	-8.5	-1.0	-1.0	-0.5	0.5	1.5	2.5	5.0	3.1	8.5	36.5	3.8	3.1
23	38.3	N	3:50	14.7	-12.5	-1.0	-1.0	-0.5	0.5	1.5	2.5	5.0	6.5	8.5	76.1	4.7	2.1
24	10.7	NNW	0:55	2.7	-23.0	-1.5	-1.0	-0.5	0.5	1.5	2.5	5.0	8.0	8.6	93.1	7.1	1.1
25	8.2	NE	14:37	2.6	-24.5	-2.0	-1.5	-0.5	0.5	1.5	2.5	5.0	8.0	8.6	92.6	7.9	1.2
26	15.9	ENE	17:22	5.4	-23.5	-2.5	-2.0	-1.0	0.5	1.5	2.5	5.0	5.5	8.7	63.2	6.7	3.0
27	25.8	E	18:48	11.5	-19.5	-2.5	-2.0	-1.0	0.5	1.5	2.5	5.0	6.3	8.8	71.9	7.4	1.7
28	23.8	ESE	0:28	10.8	-11.0	-2.5	-2.0	-1.0	0.0	1.5	2.5	5.0	0.0	8.8	0.0	4.1	3.8
29	17.1	ENE	3:28	8.8	-9.0	-2.0	-2.0	-1.0	0.0	1.5	2.5	5.0	1.3	8.9	14.7	4.7	4.2
30	13.4	NNE	9:29	6.1	-6.0	-1.5	-1.5	-1.0	0.0	1.5	2.5	4.5	0.0	8.9	0.0	3.8	3.5
31	21.2	SSW	15:06	6.8	-5.5	-1.5	-1.5	-1.0	0.0	1.5	2.5	4.5	0.0	9.0	0.0	3.5	3.3
Total													102.2	255.6	40.0	123.5	64.9
Mean				11.0	-10.5	-1.4	-1.2	-0.6	0.4	1.7	2.9	5.1					
Extreme	62.5	NNW	23:05														
Date	13																

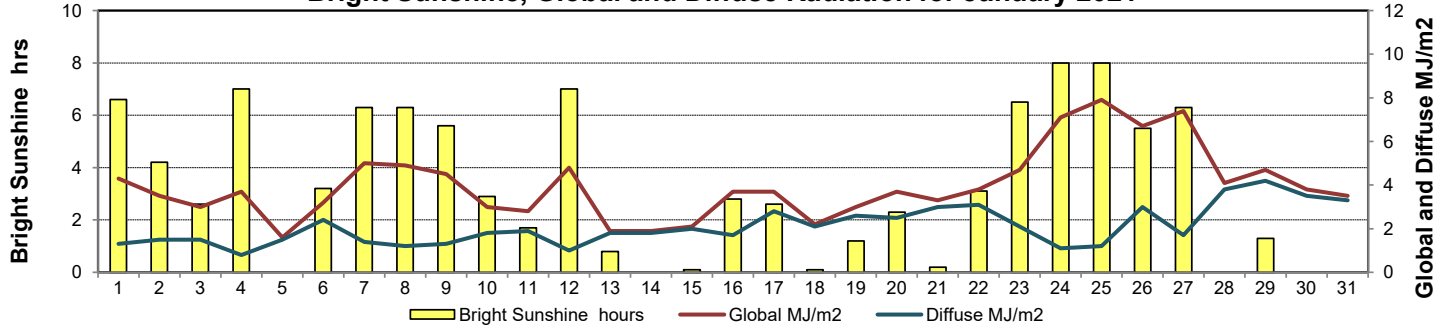
GLOSSARY OF TERMS

Degree-days	Radiation
T _m Mean Temperature	Bright Sunshine 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 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 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 to 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 January 2021

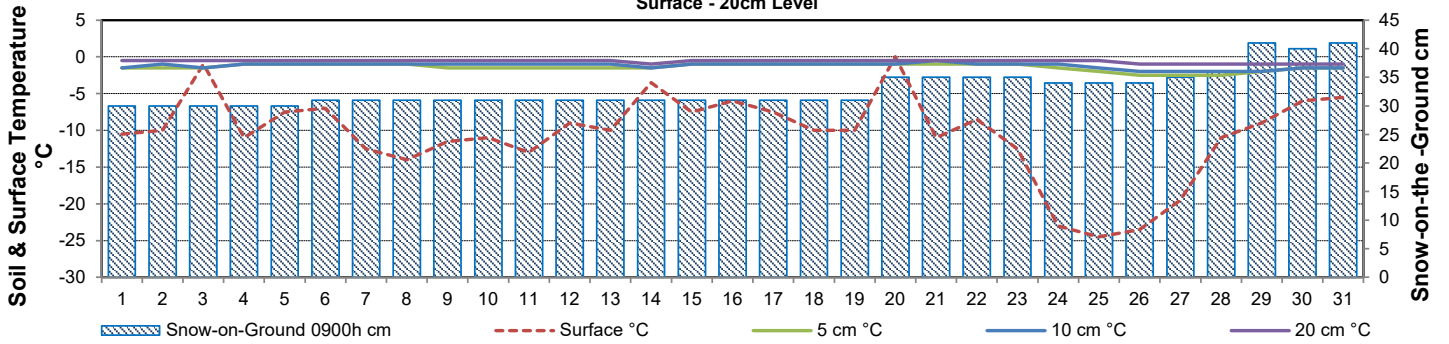


Bright Sunshine, Global and Diffuse Radiation for January 2021



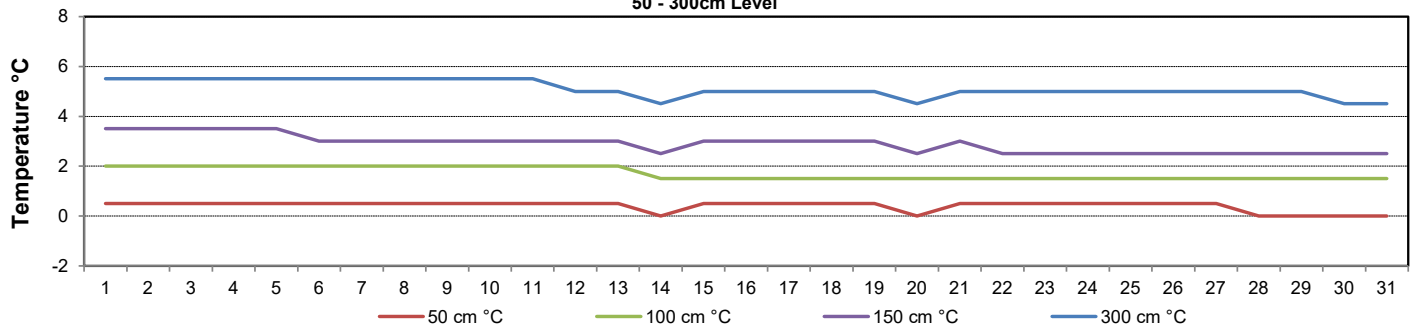
Soil Temperatures for January 2021

Surface - 20cm Level



Soil Temperatures for January 2021

50 - 300cm Level





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CONSERVATION LEARNING CENTRE

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

Preliminary

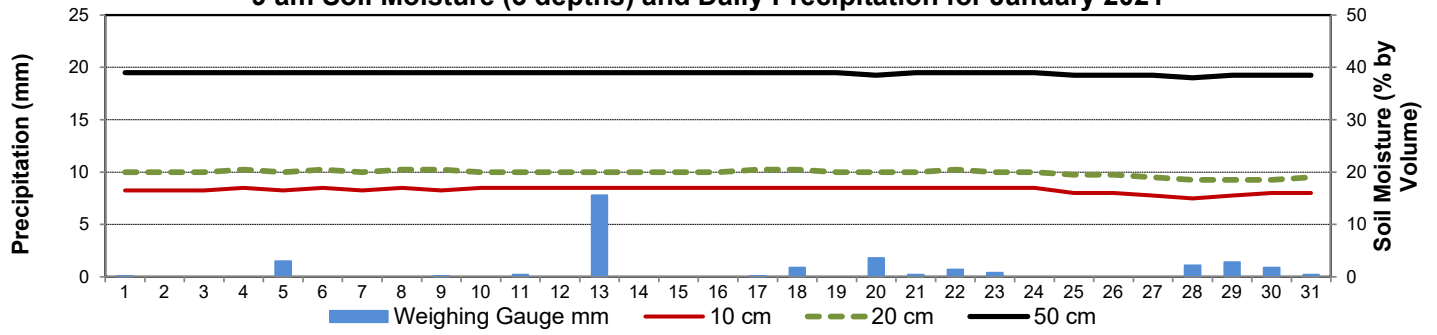
January 2021

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	7.0	16.0	21.8	16.5	20.0	39.0												
2	8.0	16.0	21.4	16.5	20.0	39.0												
3	12.0	18.7	24.7	16.5	20.0	39.0												
4	7.0	12.4	16.8	17.0	20.5	39.0												
5	8.0	12.6	19.1	16.5	20.0	39.0												
6	8.0	18.2	24.7	17.0	20.5	39.0												
7	3.0	7.4	12.2	16.5	20.0	39.0												
8	5.0	13.4	19.5	17.0	20.5	39.0												
9	8.0	15.0	19.9	16.5	20.5	39.0												
10	4.0	9.2	14.5	17.0	20.0	39.0												
11	7.0	13.1	19.1	17.0	20.0	39.0												
12	8.0	12.1	18.1	17.0	20.0	39.0												
13	11.0	37.3	50.4	17.0	20.0	39.0												
14	25.0	32.2	43.9	17.0	20.0	39.0												
15	9.0	16.8	23.7	17.0	20.0	39.0												
16	12.0	20.8	35.4	17.0	20.0	39.0												
17	8.0	13.1	17.6	17.0	20.5	39.0												
18	10.0	18.9	29.5	17.0	20.5	39.0												
19	15.0	25.8	33.7	17.0	20.0	39.0												
20	24.0	34.5	48.3	17.0	20.0	38.5												
21	11.0	21.8	31.8	17.0	20.0	39.0												
22	4.0	11.3	17.9	17.0	20.5	39.0												
23	11.0	23.3	30.6	17.0	20.0	39.0												
24	1.0	5.9	7.8	17.0	20.0	39.0												
25	1.0	6.5	8.7	16.0	19.5	38.5												
26	5.0	11.3	14.1	16.0	19.5	38.5												
27	10.0	16.7	22.5	15.5	19.0	38.5												
28	8.0	15.4	21.2	15.0	18.5	38.0												
29	8.0	11.2	15.1	15.5	18.5	38.5												
30	5.0	8.1	11.0	16.0	18.5	38.5												
31	6.0	2.0	19.0	16.0	19.0	38.5												
Total																		
Mean				17	20	38.9												
Extreme	25.0	37.3	50.4	17	20.5	39												
Date	0	0	0	0	0	0												

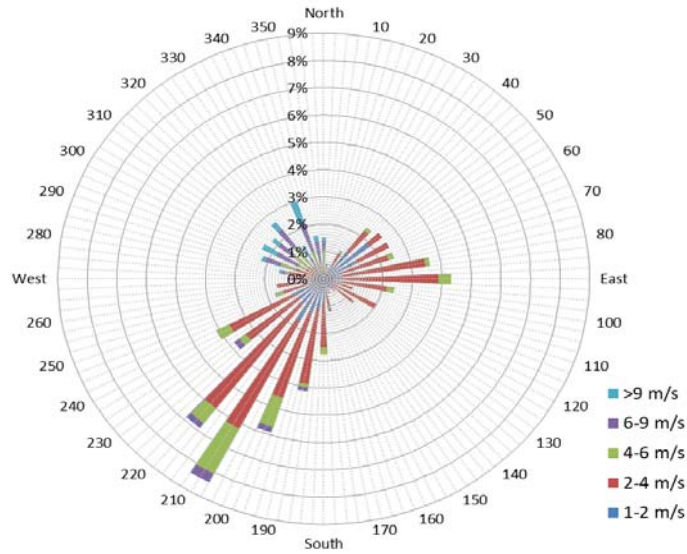
SRC proudly recognizes the following CRS supporters:



9 am Soil Moisture (3 depths) and Daily Precipitation for January 2021



10 minute Average Wind Speed and Direction CLC Jan 2021



1/2 hr Maximum Wind Speed and Direction CLC Jan 2021

