



SRC CLIMATE REFERENCE STATION DAILY DATA REPORT

CONSERVATION LEARNING CENTRE

Saskatchewan 53.03°N 105.77°W Estab. 2011

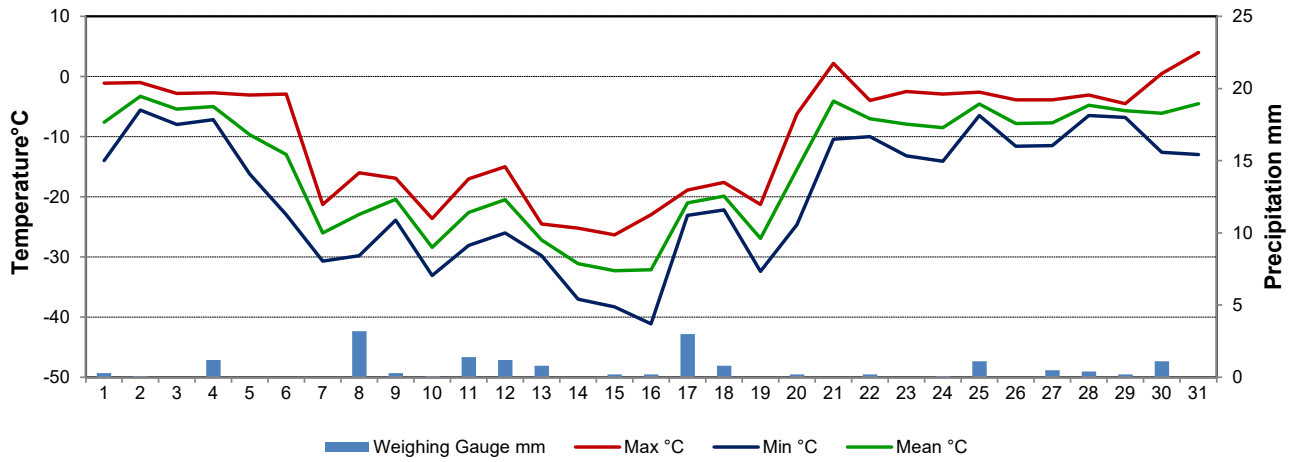
Preliminary **January 2020**

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	-14.0	-7.6	0.0	25.6	0.0	0.3		7	99	94	994	987
2	-1.0	-5.6	-3.3	0.0	21.3	0.0	0.1		7	100	76	1002	994
3	-2.8	-8.0	-5.4	0.0	23.4	0.0	0.0		7	97	81	1012	1003
4	-2.7	-7.2	-5.0	0.0	23.0	0.0	1.2		7	96	83	1009	993
5	-3.1	-16.2	-9.7	0.0	27.7	0.0	0.0		9	92	55	1012	1003
6	-2.9	-23.0	-13.0	0.0	31.0	0.0	0.0		9	95	56	1015	1001
7	-21.3	-30.7	-26.0	0.0	44.0	0.0	0.0		5	84	67	1022	1016
8	-16.0	-29.8	-22.9	0.0	40.9	0.0	3.2		7	86	81	1018	1001
9	-16.9	-23.9	-20.4	0.0	38.4	0.0	0.3		16	87	75	1019	1004
10	-23.6	-33.1	-28.4	0.0	46.4	0.0	0.1		15	84	75	1023	1014
11	-17.0	-28.1	-22.6	0.0	40.6	0.0	1.4		14	88	82	1014	1008
12	-15.0	-26.0	-20.5	0.0	38.5	0.0	1.2		19	90	73	1015	1008
13	-24.5	-29.8	-27.2	0.0	45.2	0.0	0.8		19	80	74	1017	1015
14	-25.2	-37.0	-31.1	0.0	49.1	0.0	0.0		20	83	68	1024	1017
15	-26.3	-38.3	-32.3	0.0	50.3	0.0	0.2		20	79	64	1033	1024
16	-23.0	-41.1	-32.1	0.0	50.1	0.0	0.2		20	79	72	1034	1019
17	-18.9	-23.1	-21.0	0.0	39.0	0.0	3.0		19	85	75	1020	1015
18	-17.6	-22.2	-19.9	0.0	37.9	0.0	0.8		27	88	75	1032	1020
19	-21.3	-32.4	-26.9	0.0	44.9	0.0	0.0		24	88	77	1034	1026
20	-6.2	-24.6	-15.4	0.0	33.4	0.0	0.2		24	91	75	1025	1002
21	2.2	-10.4	-4.1	0.0	22.1	0.0	0.0		23	93	65	1004	1000
22	-4.0	-10.0	-7.0	0.0	25.0	0.0	0.2		22	96	90	1014	1004
23	-2.5	-13.2	-7.9	0.0	25.9	0.0	0.0		22	96	89	1015	1012
24	-2.9	-14.1	-8.5	0.0	26.5	0.0	0.1		21	95	79	1011	1005
25	-2.6	-6.5	-4.6	0.0	22.6	0.0	1.1		21	98	88	1012	1004
26	-3.9	-11.6	-7.8	0.0	25.8	0.0	0.0		22	97	90	1017	1013
27	-3.9	-11.5	-7.7	0.0	25.7	0.0	0.5		21	98	94	1017	1014
28	-3.1	-6.5	-4.8	0.0	22.8	0.0	0.4		21	99	97	1015	1012
29	-4.5	-6.8	-5.7	0.0	23.7	0.0	0.2		22	99	97	1017	1009
30	0.5	-12.6	-6.1	0.0	24.1	0.0	1.1		23	99	81	1011	1006
31	4.0	-13.0	-4.5	0.0	22.5	0.0	0.0		23	94	55	1008	1000
Total				0.0	1017.4	0.0	16.6						
Avg	-9.9	-19.7	-14.8				16.6	Cumulative ppt					
Extreme	4.0	-41.1					3.2		27	100	55	1034	987
Date	31	16					8		18	2	5	16	1

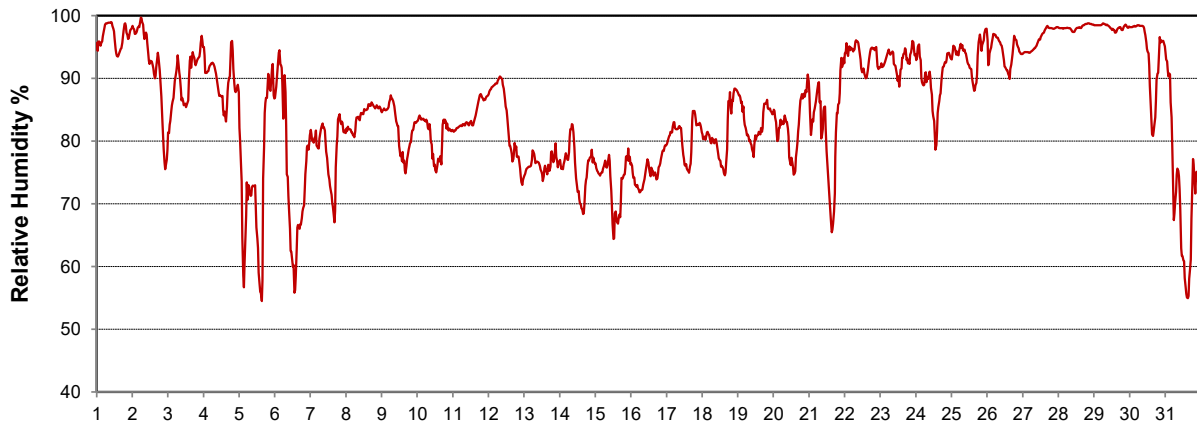
SRC proudly recognizes the following CRS supporters:



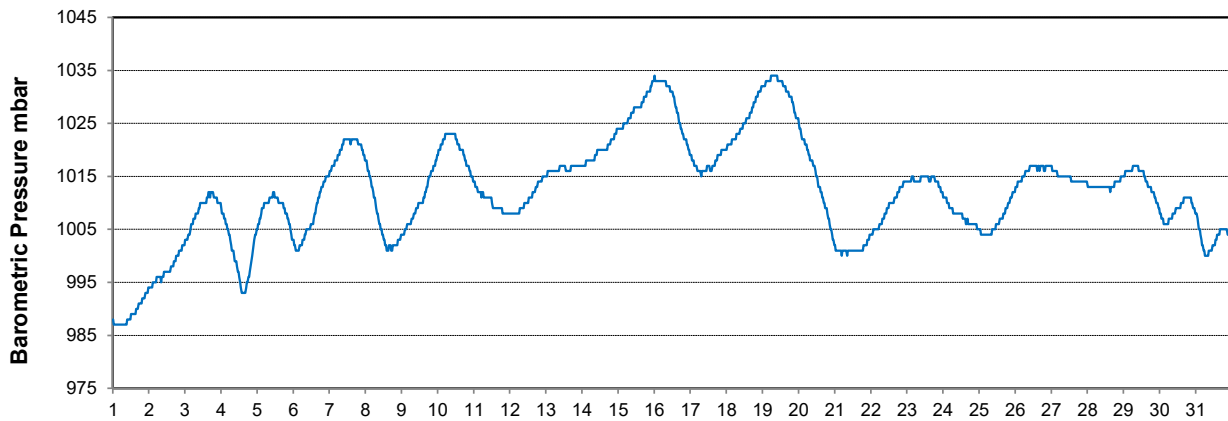
Temperature and Precipitation for January 2020



Relative Humidity for January 2020



Barometric Pressure Corrected to Sea Level for January 2020





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CONSERVATION LEARNING CENTRE

Saskatchewan 53.03°N 105.77°W Estab. 2011

Preliminary

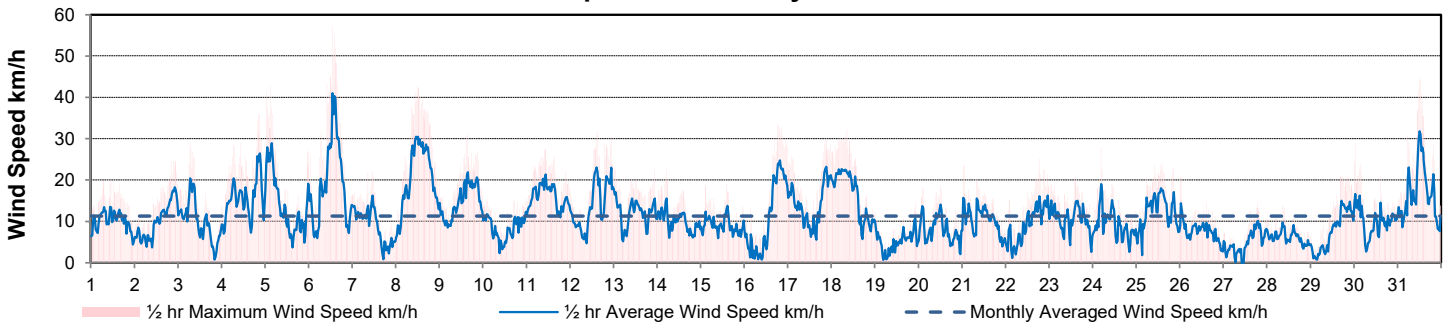
January 2020

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	Possible	% Possible	Global	Diffuse
	km/h			°C	°C	°C	°C	°C	°C	°C	°C	hours	hours		MJ/m ²	MJ/m ²
1	20.0	NW	10:53	-4.0	-2.5	-2.5	-2.0	-1.0	1.0	2.5	5.0	0.0	7.7	0.0	1.1	0.8
2	24.6	W	21:31	-4.0	-2.0	-2.5	-2.0	-1.5	0.5	2.5	4.5	0.0	7.7	0.0	1.1	0.8
3	29.3	NW	6:56	-5.5	-2.0	-2.0	-2.0	-1.5	0.5	2.0	4.5	0.0	7.7	0.0	1.5	1.3
4	35.9	NW	21:25	-5.5	-2.0	-2.0	-1.5	-1.0	0.5	2.5	5.0	1.8	7.7	23.3	2.8	1.8
5	42.6	NNE	3:24	-9.5	-2.0	-2.0	-1.5	-0.5	1.0	2.5	5.0	7.2	7.8	92.8	3.8	0.8
6	56.9	NW	13:29	-5.5	-2.5	-2.5	-2.0	-0.5	1.0	2.5	5.0	6.8	7.8	87.3	4.0	1.0
7	22.3	NW	11:22	-24.0	-3.5	-3.0	-2.0	-0.5	1.0	2.5	5.0	7.2	7.8	92.1	5.0	1.0
8	42.8	E	12:19	-18.5	-4.5	-4.0	-3.0	-0.5	1.0	2.5	5.0	0.0	7.9	0.0	1.8	1.7
9	31.1	NW	15:42	-16.0	-3.5	-3.5	-3.0	-0.5	1.0	2.5	5.0	3.8	7.9	48.2	3.3	2.0
10	15.5	WNW	2:26	-19.5	-4.0	-3.5	-3.0	-1.0	1.0	2.5	5.0	7.4	7.9	93.4	6.2	1.2
11	27.4	ENE	10:59	-21.5	-4.0	-4.0	-3.0	-1.0	1.0	2.5	5.0	0.0	8.0	0.0	2.1	1.9
12	31.8	NW	15:28	-10.5	-3.5	-3.5	-3.0	-1.0	1.0	2.5	5.0	0.0	8.0	0.0	2.5	2.3
13	22.8	NW	0:31	-17.5	-3.5	-3.0	-2.5	-1.0	1.0	2.5	5.0	0.0	8.0	0.0	2.7	2.5
14	22.4	NW	5:12	-17.0	-3.5	-3.5	-2.5	-1.0	1.0	2.0	5.0	7.5	8.1	92.8	5.3	1.2
15	19.1	NW	14:29	-16.5	-4.0	-3.5	-3.0	-1.0	0.5	2.0	5.0	6.2	8.1	76.4	4.9	2.2
16	33.5	ENE	18:35	-16.0	-4.0	-3.5	-3.0	-1.0	0.5	2.0	5.0	0.2	8.2	2.5	3.0	2.7
17	30.0	NW	20:57	-13.5	-4.0	-3.5	-3.0	-1.0	0.5	2.0	5.0	0.1	8.2	1.2	2.5	2.3
18	32.1	NW	8:58	-18.0	-4.0	-3.5	-3.0	-1.0	0.5	2.0	5.0	6.4	8.3	77.6	4.5	2.3
19	14.4	SSE	22:18	-14.5	-3.5	-3.5	-3.0	-1.0	0.5	2.0	5.0	7.4	8.3	89.2	6.2	1.8
20	18.6	S	12:14	-12.5	-3.5	-3.5	-3.0	-1.0	0.5	2.0	5.0	5.9	8.4	70.7	5.5	2.0
21	23.7	SSW	1:01	-5.5	-3.5	-3.5	-3.0	-1.5	0.5	2.0	4.5	6.6	8.4	78.6	4.5	1.3
22	25.1	ESE	18:41	-6.0	-3.0	-3.0	-2.5	-1.0	0.5	2.0	4.5	0.0	8.5	0.0	2.8	2.6
23	20.3	S	14:29	-5.0	-2.5	-2.5	-2.0	-1.0	0.5	2.0	4.5	0.0	8.5	0.0	2.7	2.5
24	27.8	S	4:53	-7.5	-2.5	-2.5	-2.0	-1.0	0.5	2.0	4.5	5.5	8.6	64.3	4.8	2.0
25	24.0	NNE	14:39	-4.0	-2.0	-2.0	-2.0	-1.0	0.5	2.0	4.5	0.0	8.6	0.0	4.0	3.7
26	20.7	NE	0:45	-4.5	-2.0	-2.0	-2.0	-1.0	0.5	2.0	4.5	0.0	8.7	0.0	3.1	2.9
27	14.5	E	18:38	-5.5	-2.0	-2.0	-1.5	-1.0	0.5	2.0	4.5	0.0	8.7	0.0	2.8	2.4
28	13.8	ENE	8:46	-3.5	-2.0	-2.0	-1.5	-1.0	0.5	1.5	4.5	0.0	8.8	0.0	2.8	2.4
29	20.9	SSW	16:38	-3.5	-1.5	-2.0	-1.5	-1.0	0.5	1.5	4.0	0.0	8.8	0.0	2.3	2.0
30	29.0	SSE	0:48	-3.5	-1.5	-2.0	-1.5	-1.0	0.0	1.5	4.0	5.4	8.9	60.8	2.5	0.8
31	44.8	WNW	12:28	-5.5	-1.5	-1.5	-1.5	-1.0	0.5	1.5	4.5	7.2	8.9	80.5	6.4	1.5
Total												92.6	254.6	36.4	108.5	57.7
Mean				-10.4	-2.9	-2.8	-2.3	-1.0	0.7	2.1	4.8					
Extreme	56.9	NW	13:29													
Date	6															

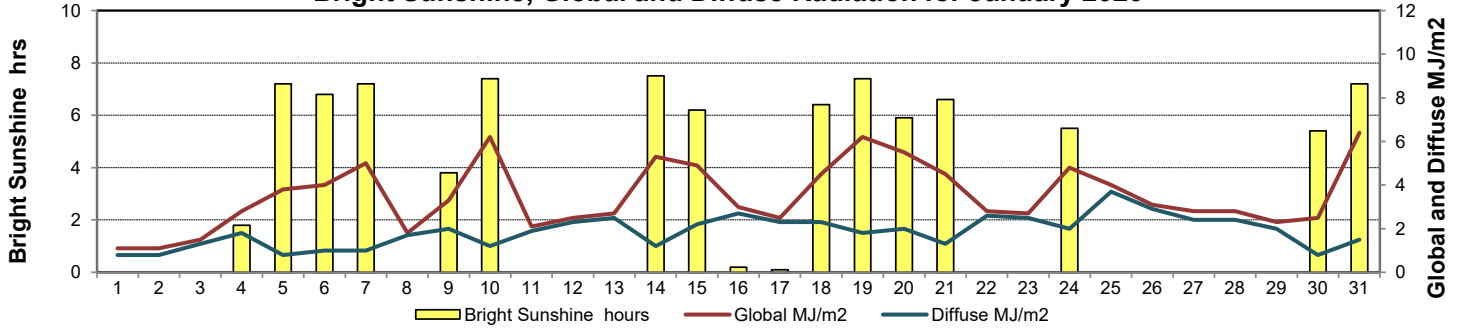
GLOSSARY OF TERMS

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	
Heating (18°C-T _m); if T _m ≥ 18°C then HDD = 0	Diffuse 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 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 January 2020

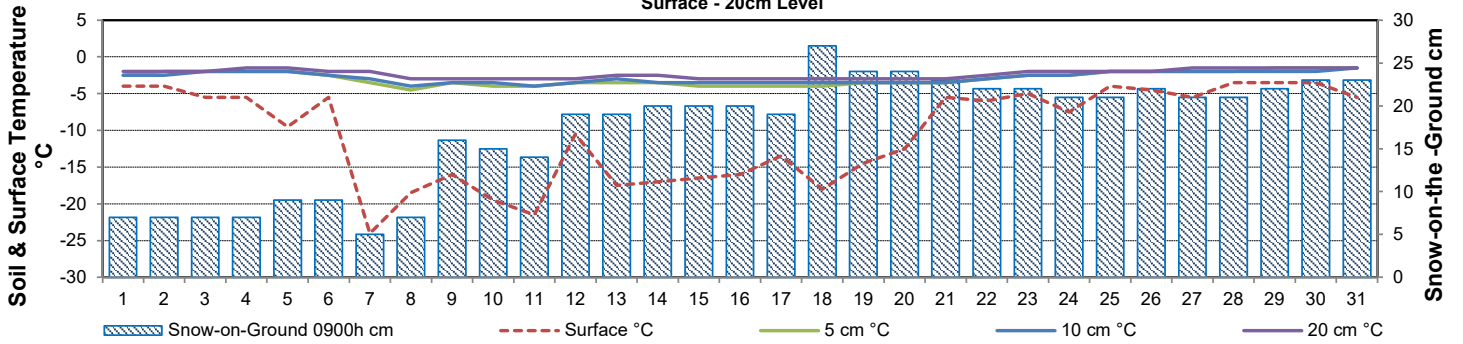


Bright Sunshine, Global and Diffuse Radiation for January 2020



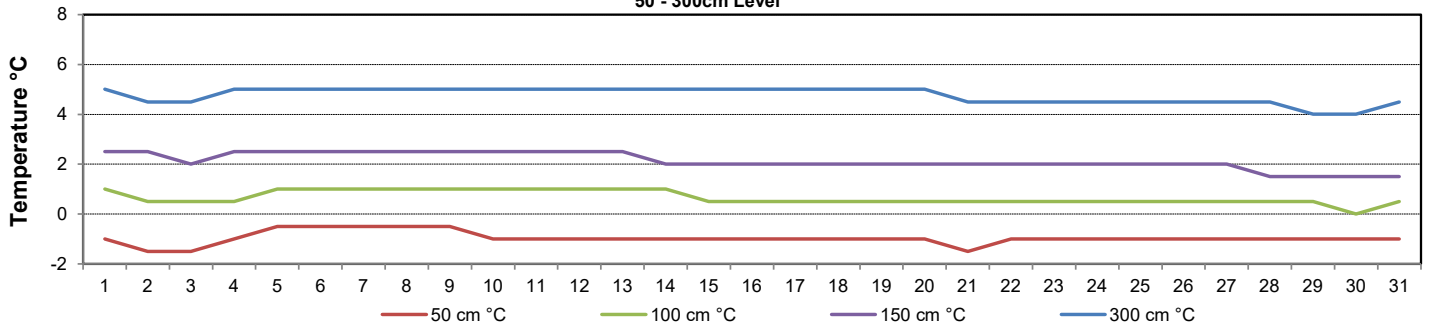
Soil Temperatures for January 2020

Surface - 20cm Level



Soil Temperatures for January 2020

50 - 300cm Level





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Saskatchewan 53.03°N 105.77°W Estab. 2011

Preliminary

January 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	8.0	10.3	14.9	16.0	19.5	33.5													
2	8.0	14.0	20.6	16.5	19.5	33.5													
3	8.0	15.9	23.3	17.0	20.0	33.5													
4	11.0	20.1	28.1	17.0	19.5	33.5													
5	11.0	22.4	33.1	16.5	20.0	33.5													
6	15.0	31.1	42.7	16.5	20.0	33.5													
7	7.0	13.2	18.3	16.0	19.5	34.0													
8	16.0	24.0	34.6	15.5	19.0	33.0													
9	11.0	17.2	25.0	16.0	19.0	32.5													
10	6.0	10.0	13.7	15.5	18.5	32.0													
11	13.0	17.2	22.7	15.5	18.5	31.0													
12	11.0	18.1	24.7	15.5	18.5	31.0													
13	10.0	14.5	18.5	15.5	18.5	30.5													
14	8.0	13.0	19.1	16.0	18.5	30.0													
15	8.0	11.5	15.1	15.5	18.5	30.0													
16	9.0	20.1	27.9	15.5	18.5	30.5													
17	12.0	18.6	23.9	15.5	18.5	29.5													
18	13.0	18.8	25.0	15.5	18.5	29.5													
19	4.0	7.9	10.8	16.0	18.5	29.5													
20	6.0	12.3	16.0	15.5	18.0	29.0													
21	9.0	13.4	20.2	15.5	18.5	29.0													
22	7.0	13.2	20.0	16.0	18.5	29.0													
23	9.0	13.1	18.5	16.0	18.5	29.5													
24	7.0	15.3	22.5	16.0	19.0	29.5													
25	10.0	14.2	19.7	16.0	19.0	29.5													
26	6.0	10.9	15.6	16.5	19.0	29.5													
27	4.0	6.5	8.9	16.5	19.5	30.0													
28	5.0	6.9	9.7	16.5	19.0	29.5													
29	6.0	10.3	14.9	16.5	19.5	30.0													
30	6.0	11.5	16.8	16.5	19.0	30.0													
31	13.0	3.0	33.0	16.5	19.5	30.0													
Total																			
Mean				16	19	30.9													
Extreme	16.0	31.1	42.7	17	20	34													
Date	0	0	0	0	0	New Record													

SRC proudly recognizes the following CRS supporters:



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

