



SRC CLIMATE REFERENCE STATION DAILY DATA REPORT

CONSERVATION LEARNING CENTRE

Saskatchewan 53.03°N 105.77°W Estab. 2011

Preliminary

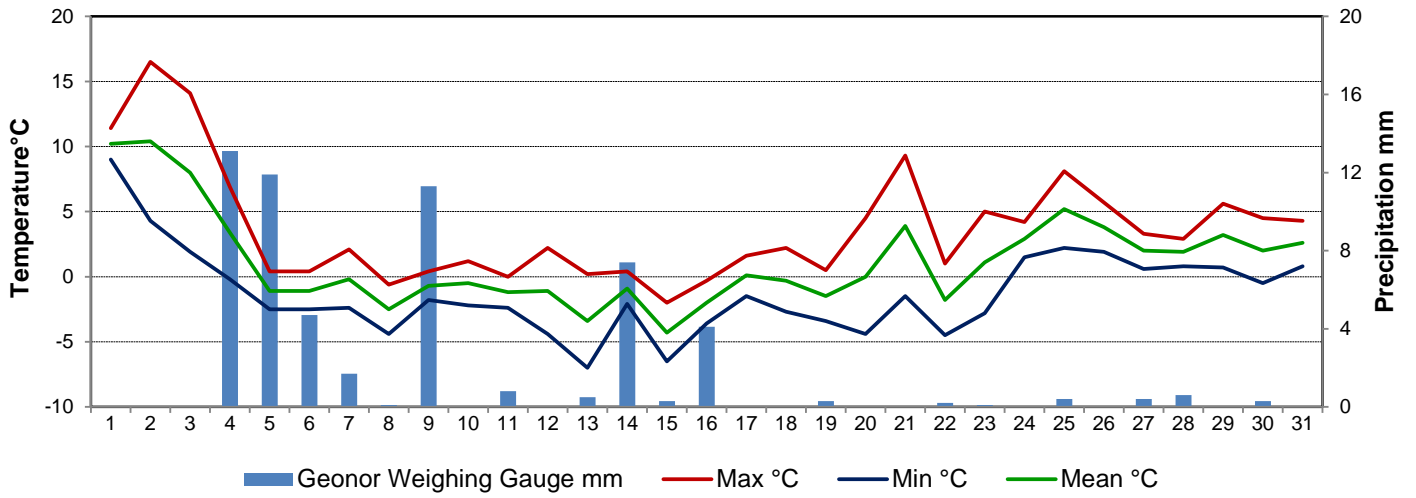
October 2016

Day	Temperature			Degree-days			Precipitation			Relative Humidity		Station Pressure <i>corrected to sea level</i>	
	Max	Min	Mean	Growing	Heating	Cooling	Geonor 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	11.4	9.0	10.2	5.2	7.8	0.0	0.0		0	95	89	1017	1010
2	16.5	4.3	10.4	5.4	7.6	0.0	0.0		0	95	40	1013	1009
3	14.1	1.9	8.0	3.0	10.0	0.0	0.0		0	93	37	1013	1010
4	6.9	-0.2	3.4	0.0	14.6	0.0	13.1		0	94	67	1010	1008
5	0.4	-2.5	-1.1	0.0	19.1	0.0	11.9		1	95	88	1009	1006
6	0.4	-2.5	-1.1	0.0	19.1	0.0	4.7		13	94	80	1022	1009
7	2.1	-2.4	-0.2	0.0	18.2	0.0	1.7		11	94	71	1023	1022
8	-0.6	-4.4	-2.5	0.0	20.5	0.0	0.1		5	95	77	1026	1019
9	0.4	-1.8	-0.7	0.0	18.7	0.0	11.3		10	94	86	1018	1003
10	1.2	-2.2	-0.5	0.0	18.5	0.0	0.0		6	91	74	1022	1011
11	0.0	-2.4	-1.2	0.0	19.2	0.0	0.8		4	93	62	1023	1020
12	2.2	-4.4	-1.1	0.0	19.1	0.0	0.0		4	90	64	1020	1014
13	0.2	-7.0	-3.4	0.0	21.4	0.0	0.5		1	94	66	1017	1002
14	0.4	-2.1	-0.9	0.0	18.9	0.0	7.4		2	94	85	1000	988
15	-2.0	-6.5	-4.3	0.0	22.3	0.0	0.3		0	93	79	1007	993
16	-0.3	-3.6	-2.0	0.0	20.0	0.0	4.1		0	95	89	1006	989
17	1.6	-1.5	0.1	0.0	17.9	0.0	0.0		0	95	74	1002	989
18	2.2	-2.7	-0.3	0.0	18.3	0.0	0.0		0	90	68	1015	1002
19	0.5	-3.4	-1.5	0.0	19.5	0.0	0.3		0	94	83	1023	1015
20	4.5	-4.4	0.0	0.0	18.0	0.0	0.0		0	95	69	1023	1004
21	9.3	-1.5	3.9	0.0	14.1	0.0	0.0		0	93	59	1010	1003
22	1.0	-4.5	-1.8	0.0	19.8	0.0	0.2		0	96	93	1016	1011
23	5.0	-2.8	1.1	0.0	16.9	0.0	0.1		0	96	88	1023	1016
24	4.2	1.5	2.9	0.0	15.1	0.0	0.0		0	95	89	1023	1020
25	8.1	2.2	5.2	0.2	12.8	0.0	0.4		0	91	69	1020	1013
26	5.7	1.9	3.8	0.0	14.2	0.0	0.0		0	92	72	1015	1011
27	3.3	0.6	2.0	0.0	16.0	0.0	0.4		0	92	82	1014	1006
28	2.9	0.8	1.9	0.0	16.1	0.0	0.6		0	95	84	1019	1007
29	5.6	0.7	3.2	0.0	14.8	0.0	0.0		0	95	77	1019	1017
30	4.5	-0.5	2.0	0.0	16.0	0.0	0.3		0	95	80	1016	1003
31	4.3	0.8	2.6	0.0	15.4	0.0	0.0		0	95	74	1003	1001
Total				13.8	519.9	0.0	58.2	0					
Avg	3.7	-1.3	1.2				358.6	Cumulative ppt					
Extreme	16.5	-7.0					13.1	0.0	13	96	37	1026	988
Date	2	13					4			22	3	8	14

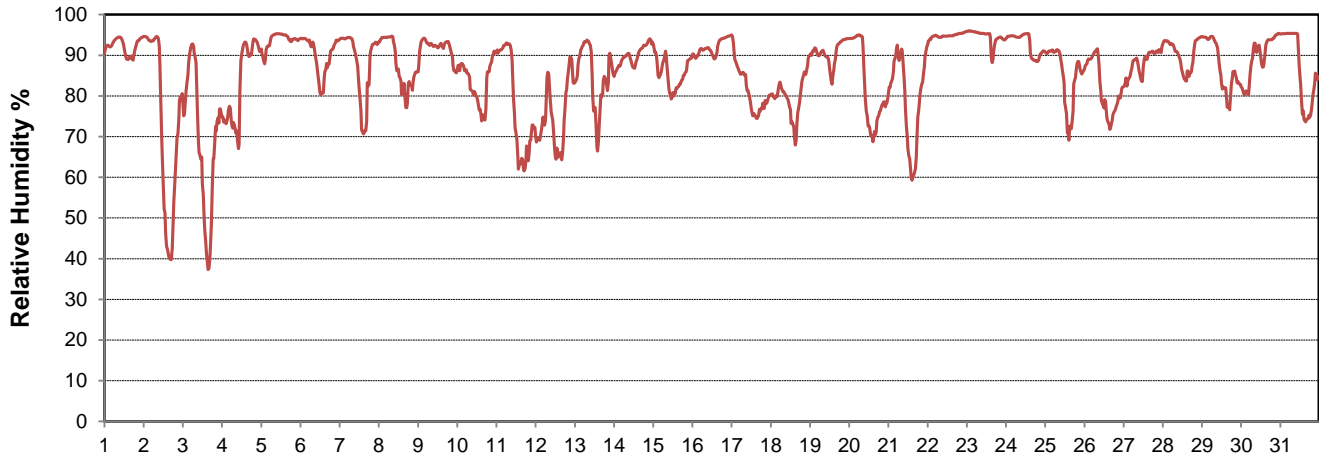
SRC proudly recognizes the following CRS supporters:



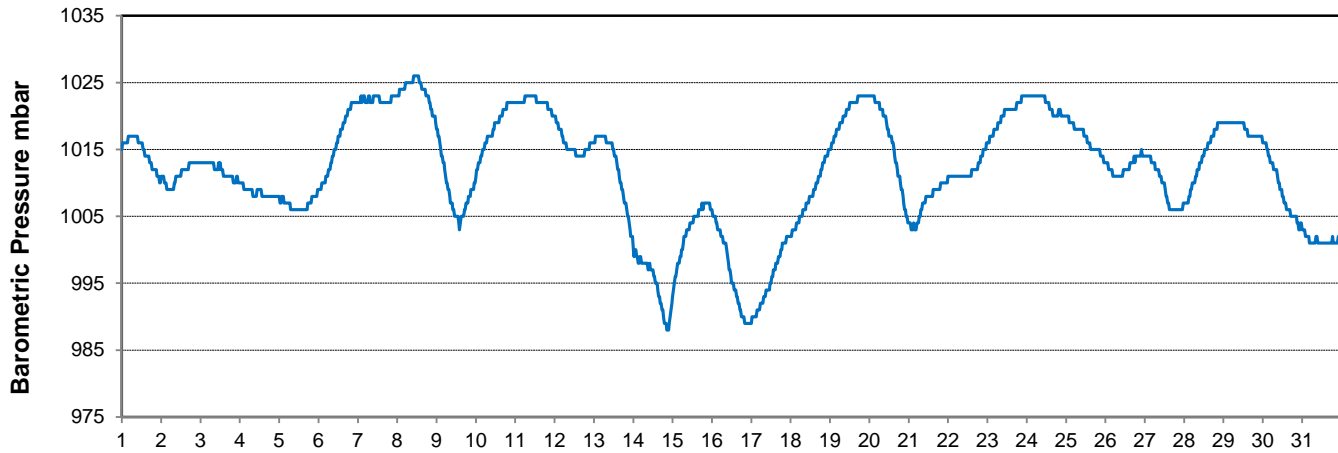
Temperature and Precipitation for October 2016



Relative Humidity for October 2016



Barometric Pressure Corrected to Sea Level for October 2016





SRC CLIMATE REFERENCE STATION DAILY DATA REPORT

CONSERVATION LEARNING CENTRE

Saskatchewan 53.03°N 105.77°W Estab. 2011

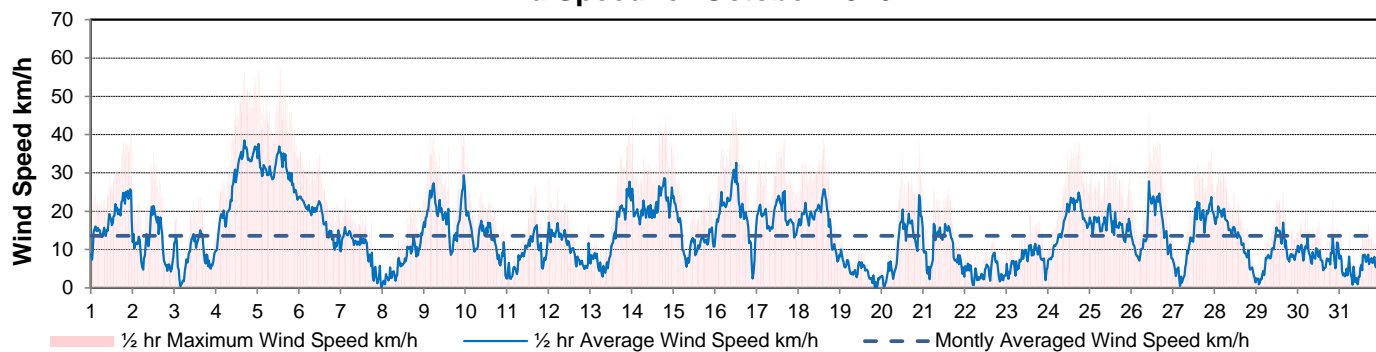
Preliminary **October 2016**

Day	Wind Gust			Soil Temperatures at 0900hrs								Soil Moisture 30 cm	Radiation		
	Max	Direction	Time	Surface	5 cm	10 cm	20 cm	50 cm	100 cm	150 cm	300 cm	0900hrs	Bright Sunshine	Global	Diffuse
	km/h			°C	°C	°C	°C	°C	°C	°C	°C	%	hours	MJ/m ²	MJ/m ²
1	40.9	E	23:08	10.0	11.0	11.0	11.0	10.5	11.0	11.0	8.5	29	0.0	2.3	2.1
2	35.4	W	12:17	11.0	11.0	10.5	10.5	10.0	10.5	10.5	8.0	28	8.4	11.7	2.2
3	23.8	ENE	14:02	6.0	9.5	10.0	11.0	11.0	11.0	11.0	9.0	28	7.2	9.8	4.2
4	56.2	NNE	16:38	6.0	9.5	9.5	10.5	11.0	11.0	10.5	9.0	28	0.0	1.5	1.4
5	57.3	N	13:49	0.0	6.5	7.0	8.5	9.0	10.0	10.0	7.5	31	0.0	3.2	2.9
6	35.9	NNW	0:52	0.0	6.0	6.0	7.0	7.5	9.0	9.0	6.0	31	0.0	6.3	5.8
7	23.4	NNW	2:35	-0.5	6.5	6.0	7.0	8.0	9.5	9.5	6.5	31	3.3	8.9	7.2
8	23.1	E	23:59	-1.5	6.5	6.5	7.5	9.0	10.5	10.5	8.5	32	1.7	8.0	6.3
9	42.0	WNW	21:57	0.5	6.0	6.0	7.0	8.0	10.0	10.0	8.0	32	0.0	2.0	1.8
10	34.3	NW	1:25	-0.5	5.5	5.0	6.5	7.5	9.0	9.5	7.5	34	0.0	5.9	5.4
11	26.7	WNW	16:28	-1.0	5.5	5.5	6.5	8.0	9.5	10.0	8.5	34	0.4	5.8	5.3
12	28.7	W	0:03	-3.5	5.5	5.0	6.0	7.5	9.0	10.0	8.0	34	7.2	10.1	5.3
13	40.5	E	22:30	-3.0	5.5	5.5	6.5	8.0	9.5	10.0	8.5	33	4.9	9.7	4.1
14	44.7	ESE	19:08	-0.5	5.0	5.0	6.0	7.0	9.0	9.5	8.5	33	0.0	2.3	2.2
15	37.0	N	0:10	-4.5	5.0	5.0	5.5	6.5	8.5	9.5	8.0	34	1.7	5.4	4.3
16	45.7	E	10:27	-1.0	4.5	4.5	5.0	6.0	8.0	9.0	8.0	34	0.0	1.5	1.4
17	39.1	WNW	16:15	-0.5	4.0	3.5	4.5	5.0	7.5	8.5	7.0	34	1.5	5.7	4.7
18	39.2	WNW	14:41	0.0	4.0	3.5	4.5	5.5	7.5	8.5	7.5	34	2.5	6.5	4.9
19	14.4	WNW	0:48	-0.5	4.5	4.0	5.0	6.0	8.0	9.0	8.0	35	0.0	2.3	2.2
20	37.9	SSE	21:50	-1.5	4.5	4.0	5.0	6.0	7.5	9.0	8.0	35	5.6	8.2	3.8
21	26.5	NW	6:29	0.5	4.5	4.5	5.5	6.5	8.5	9.0	9.0	35	9.5	9.2	1.3
22	12.8	NE	16:47	-3.0	4.0	4.5	5.0	6.5	8.0	9.0	9.0	35	0.0	2.9	2.7
23	19.1	SW	14:11	-1.0	4.0	4.0	5.0	6.0	8.0	9.0	8.5	35	0.2	4.0	3.6
24	37.9	E	17:57	3.0	4.0	4.0	4.5	6.0	7.5	8.5	8.5	35	0.0	1.8	1.7
25	32.7	ESE	11:46	3.0	4.5	4.0	4.5	5.0	7.0	8.0	8.0	35	1.3	3.9	3.2
26	45.4	W	10:28	5.5	5.0	4.5	5.0	5.5	7.0	8.0	8.0	35	0.4	2.5	2.3
27	35.9	ENE	22:19	2.5	5.0	5.0	5.5	5.5	7.0	8.0	8.0	35	0.0	1.6	1.5
28	31.5	NNE	3:50	2.0	4.5	4.0	4.5	5.0	6.5	7.5	7.5	35	0.0	2.0	1.8
29	25.3	WSW	15:48	2.0	4.5	4.0	4.5	5.0	6.5	7.5	7.5	35	0.2	2.6	2.4
30	22.4	WNW	20:11	3.0	5.0	4.5	5.0	5.0	6.5	7.5	7.5	34	0.0	1.3	1.2
31	16.7	WSW	16:55	2.5	4.5	4.0	5.0	5.0	6.5	7.5	7.5	34	0.0	3.7	3.5
Total													56.0	152.6	102.7
Mean				1.1	5.7	5.5	6.3	7.0	8.5	8.9	8.0	33.1			
Extreme	57.3	N	13:49												
Date	5														

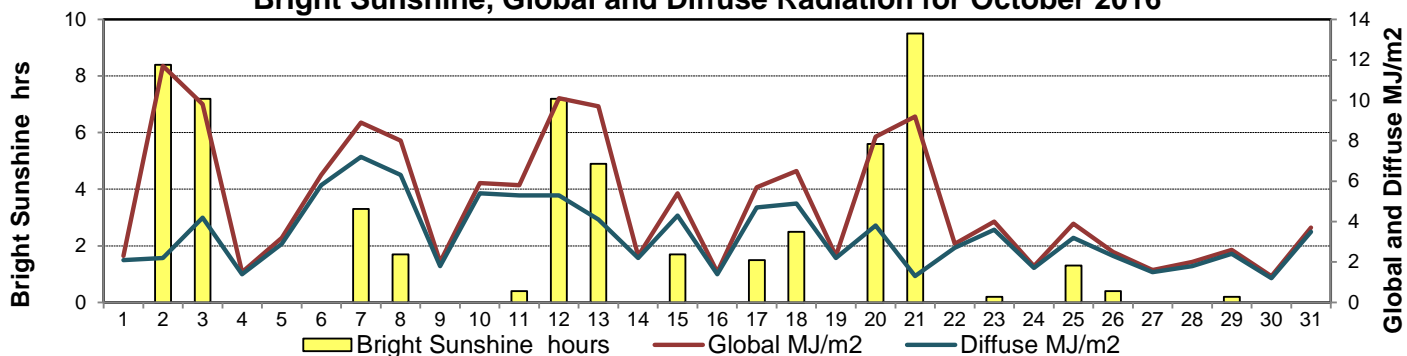
GLOSSARY OF TERMS

Degree-days	Radiation
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	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 October 2016

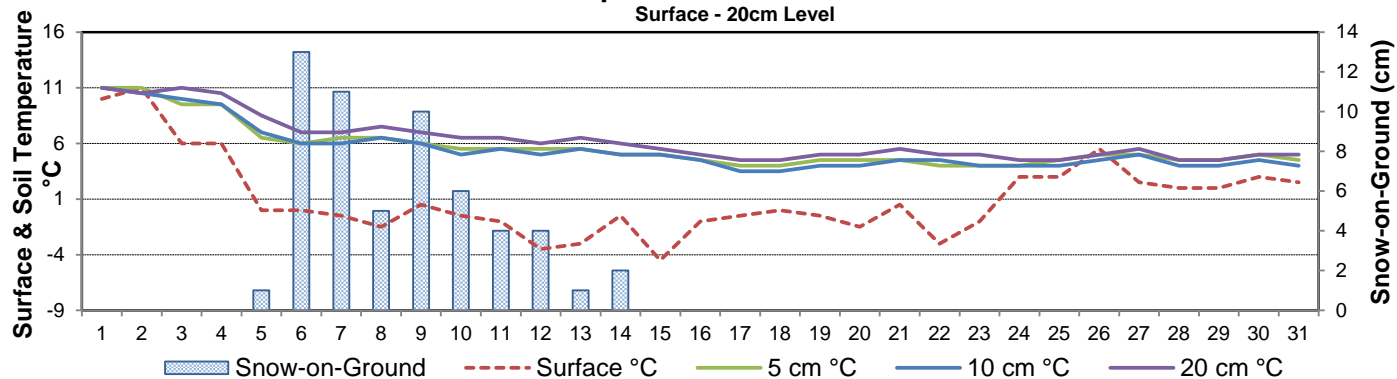


Bright Sunshine, Global and Diffuse Radiation for October 2016



Soil Temperatures for October 2016

Surface - 20cm Level



Soil Temperatures for October 2016

50 - 300cm Level

