



SRC CLIMATE REFERENCE STATION DAILY DATA REPORT

SASKATOON STATION 4057180

52°09' N 106°36' W 497 m asl Estab. 1963

Preliminary **FEBRUARY 2020**

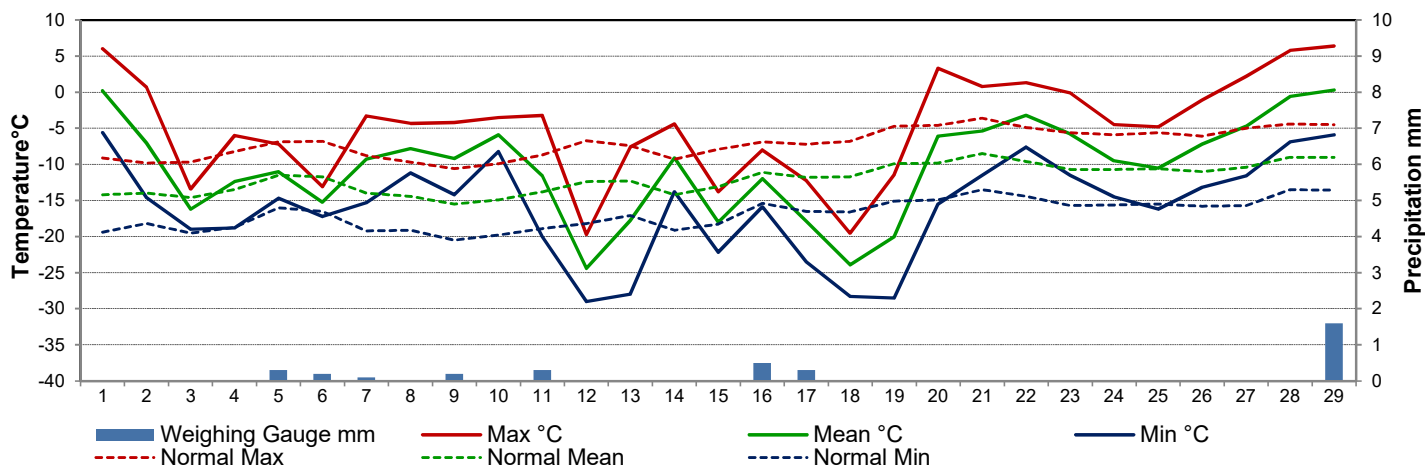
Day	Temperature						Degree-days			Precipitation			Relative Humidity		Station Pressure (sea level)	
	Max	Normal Max	Min	Normal Min	Mean	Normal Mean	Growing	Heating	Cooling	Weighing Gauge	Notes	Snow-on-Ground 0900h	Max ½ hr Avg	Min ½ hr Avg	Max ½ hr Avg	Min ½ hr Avg
	°C	1981-2010	°C	1981-2010	°C	1981-2010	5°C base	18°C base	18°C base	mm		cm	%	%	mbar	mbar
1	6.0	-9.1	-5.6	-19.4	0.2	-14.2	0.0	17.8	0.0	0.0		11	88	64	1004	988
2	0.7	-9.8	-14.6	-18.2	-7.0	-14.0	0.0	25.0	0.0	0.0		10	79	45	1014	999
3	-13.4	-9.7	-19.0	-19.5	-16.2	-14.6	0.0	34.2	0.0	0.0		10	85	71	1022	1014
4	-6.0	-8.2	-18.8	-18.7	-12.4	-13.5	0.0	30.4	0.0	0.0		10	88	69	1022	1004
5	-7.2	-6.9	-14.7	-16.0	-11.0	-11.5	0.0	29.0	0.0	0.3	light snow	10	85	75	1004	1003
6	-13.1	-6.8	-17.2	-16.5	-15.2	-11.7	0.0	33.2	0.0	0.2	light snow	10	82	70	1010	1003
7	-3.3	-8.8	-15.3	-19.2	-9.3	-14.0	0.0	27.3	0.0	0.1	light snow	10	87	74	1010	1007
8	-4.3	-9.7	-11.2	-19.1	-7.8	-14.4	0.0	25.8	0.0	0.0		10	91	78	1019	1006
9	-4.2	-10.6	-14.2	-20.5	-9.2	-15.5	0.0	27.2	0.0	0.2	light snow	10	91	64	1019	1005
10	-3.5	-9.9	-8.2	-19.8	-5.9	-14.9	0.0	23.9	0.0	0.0		10	84	64	1018	1009
11	-3.2	-8.7	-20.0	-18.9	-11.6	-13.8	0.0	29.6	0.0	0.3	light snow	10	88	67	1020	1002
12	-19.7	-6.7	-29.0	-18.2	-24.4	-12.4	0.0	42.4	0.0	0.0		9	73	48	1032	1021
13	-7.6	-7.4	-28.0	-17.1	-17.8	-12.3	0.0	35.8	0.0	0.0		9	76	57	1026	996
14	-4.4	-9.3	-13.8	-19.1	-9.1	-14.2	0.0	27.1	0.0	0.0		9	88	66	1009	994
15	-13.8	-7.9	-22.2	-18.3	-18.0	-13.1	0.0	36.0	0.0	0.0		9	74	51	1014	1009
16	-8.0	-6.9	-15.9	-15.4	-12.0	-11.1	0.0	30.0	0.0	0.5	light snow	9	86	69	1012	1006
17	-12.2	-7.2	-23.5	-16.5	-17.9	-11.8	0.0	35.9	0.0	0.3	light snow	10	86	61	1028	1007
18	-19.5	-6.8	-28.3	-16.6	-23.9	-11.7	0.0	41.9	0.0	0.0		10	78	58	1033	1028
19	-11.4	-4.7	-28.5	-15.1	-20.0	-9.9	0.0	38.0	0.0	0.0		10	81	63	1033	1024
20	3.3	-4.6	-15.5	-14.9	-6.1	-9.8	0.0	24.1	0.0	0.0		10	81	43	1023	1010
21	0.8	-3.6	-11.5	-13.5	-5.4	-8.5	0.0	23.4	0.0	0.0		10	77	52	1012	1006
22	1.3	-4.9	-7.6	-14.4	-3.2	-9.6	0.0	21.2	0.0	0.0		9	82	65	1009	1002
23	-0.1	-5.6	-11.5	-15.7	-5.8	-10.7	0.0	23.8	0.0	0.0		9	87	50	1013	1009
24	-4.5	-5.9	-14.5	-15.6	-9.5	-10.7	0.0	27.5	0.0	0.0		9	89	62	1029	1012
25	-4.8	-5.6	-16.2	-15.5	-10.5	-10.6	0.0	28.5	0.0	0.0		9	89	61	1034	1026
26	-1.1	-6.1	-13.2	-15.8	-7.2	-11.0	0.0	25.2	0.0	0.0		9	92	63	1025	1015
27	2.2	-5.0	-11.6	-15.7	-4.7	-10.4	0.0	22.7	0.0	0.0		9	93	66	1015	1012
28	5.8	-4.4	-6.9	-13.5	-0.6	-9.0	0.0	18.6	0.0	0.0		9	88	53	1014	1006
29	6.4	-4.5	-5.9	-13.6	0.3	-9.0	0.0	17.7	0.0	1.6	snow	7	95	57	1006	992
Total							0.0	823.2	0.0	3.5			Extreme / Date	Extreme / Date	Extreme / Date	Extreme / Date
Avg	-4.8	-7.1	-15.9	-16.9	-10.4	-12.0	1981-2010 Normal			9.3	Normal					
Extreme Date	6.4		-29.0				0.0	848.2	0.0	13.2	Cumulative		95	43	1034	988
	29		12							24.8	Cum. Normal		29	20	25	1

Note: Red numbers indicate manual calculation; Red cell indicate data not available

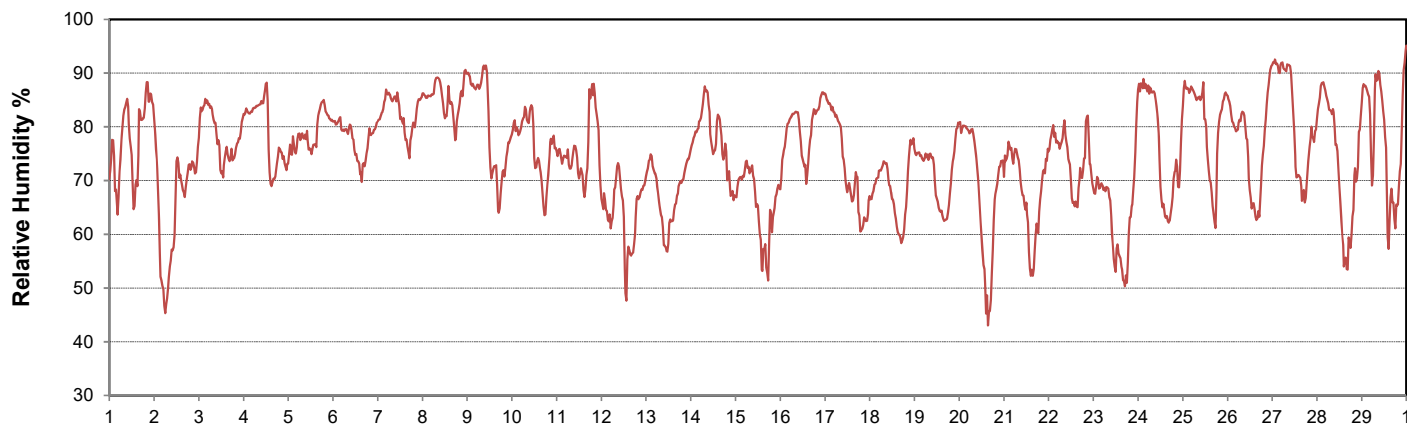
SRC proudly recognizes the following CRS supporters:



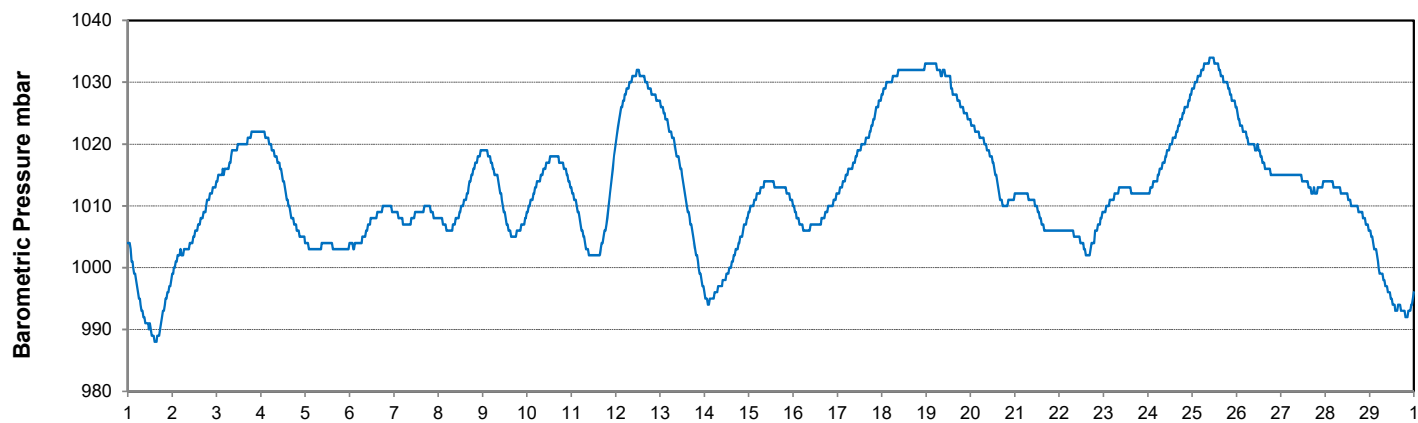
Temperature and Precipitation for February 2020



Relative Humidity for February 2020



Barometric Pressure Corrected to Sea Level for February 2020





SRC CLIMATE REFERENCE STATION DAILY DATA REPORT

SASKATOON STATION 4057180

52°09' N 106°36' W 497 m asl Estab. 1963

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	Possible	% Possible	Global	Diffuse
	km/h			°C	°C	°C	°C	°C	°C	°C	°C	hours	hours		MJ/m ²	MJ/m ²
1	39.2	NNW	20:25	-5.5	-3.0	-3.0	-3.0	-1.5	0.5	1.5	4.0	5.1	9.1	56.0	5.3	2.5
2	68.3	WNW	11:18	-5.5	-3.0	-2.5	-2.5	-1.5	0.5	1.5	4.0	8.2	9.2	89.5	6.3	1.7
3	29.1	WNW	17:36	-18.5	-3.0	-3.0	-2.5	-1.5	0.5	1.5	4.0	1.6	9.2	17.4	5.0	3.2
4	42.9	SW	12:53	-18.5	-4.0	-3.5	-3.0	-1.5	0.5	1.5	4.0	7.4	9.3	79.7	7.3	2.0
5	27.2	NE	19:10	-9.0	-4.0	-3.5	-3.5	-1.5	0.5	1.5	4.0	2.3	9.3	24.6	5.0	3.6
6	24.3	ENE	10:51	-14.0	-4.0	-3.5	-3.5	-1.5	0.5	1.5	4.0	4.2	9.4	44.7	4.9	3.0
7	24.3	WNW	10:55	-8.5	-4.0	-4.0	-3.5	-1.5	0.5	1.5	4.0	5.1	9.5	53.9	6.0	3.0
8	28.1	N	15:15	-7.5	-4.0	-3.5	-3.5	-1.5	0.5	1.5	4.0	0.1	9.5	1.1	3.8	3.1
9	39.1	SW	12:22	-9.0	-4.0	-3.5	-3.0	-1.5	0.5	1.5	4.0	2.7	9.6	28.2	5.8	3.7
10	36.2	WNW	13:14	-7.0	-4.0	-3.5	-3.5	-1.5	0.5	1.5	4.0	6.6	9.6	68.5	7.1	1.7
11	50.6	NE	20:38	-7.5	-3.5	-3.5	-3.0	-1.5	0.5	1.5	4.0	1.2	9.7	12.4	4.9	3.8
12	32.2	NNE	14:26	-29.0	-3.5	-3.5	-3.0	-1.5	0.5	1.5	4.0	9.4	9.8	96.2	9.4	1.6
13	45.9	SE	1:35	-27.0	-5.0	-4.5	-3.5	-1.5	0.5	1.5	4.0	7.1	9.8	72.2	8.5	2.9
14	44.5	WNW	20:47	-8.5	-5.0	-4.5	-4.0	-1.5	0.5	1.5	4.0	4.9	9.9	49.5	6.1	3.7
15	37.0	NW	3:05	-23.5	-4.5	-4.5	-4.0	-2.0	0.5	1.5	3.5	6.7	10.0	67.3	8.1	2.4
16	32.1	ESE	1:32	-11.5	-5.0	-4.5	-4.0	-2.0	0.5	1.5	3.5	3.1	10.0	30.9	6.4	3.6
17	31.9	N	17:20	-15.5	-5.0	-4.5	-4.0	-2.0	0.5	1.5	3.5	4.3	10.1	42.6	7.4	4.0
18	27.4	WNW	14:28	-28.5	-5.0	-4.5	-4.0	-2.0	0.5	1.5	3.5	9.9	10.2	97.5	11.7	1.7
19	27.3	SSW	12:36	-28.0	-6.0	-5.5	-4.5	-2.0	0.5	1.5	3.5	9.5	10.2	93.0	10.8	2.1
20	45.4	SW	16:45	-14.5	-6.5	-6.0	-5.0	-2.5	0.5	1.5	3.5	9.8	10.3	95.3	10.1	1.7
21	36.6	SW	13:45	-10.0	-5.5	-5.5	-5.0	-2.5	0.5	1.5	3.5	5.7	10.4	55.1	9.1	3.3
22	43.5	WNW	21:51	-6.0	-5.0	-5.0	-4.5	-2.5	0.0	1.5	3.5	0.6	10.4	5.8	5.9	4.7
23	29.1	W	0:56	-10.5	-4.5	-4.5	-4.0	-2.5	0.0	1.5	3.5	10.1	10.5	96.4	10.5	1.8
24	21.2	NNW	16:40	-14.5	-4.5	-4.5	-4.0	-2.5	0.0	1.5	3.5	7.6	10.5	72.1	9.7	3.9
25	26.3	SE	21:27	-21.5	-5.0	-4.5	-4.0	-2.5	0.0	1.5	3.5	10.1	10.6	95.2	12.0	1.9
26	30.5	SE	0:47	-12.0	-5.0	-4.5	-4.5	-2.5	0.0	1.5	3.5	6.1	10.7	57.1	8.7	4.4
27	25.3	SW	10:58	-7.5	-5.0	-4.5	-4.0	-2.5	0.0	1.0	3.5	4.3	10.7	40.0	7.2	4.1
28	24.9	SW	9:49	-5.5	-4.5	-4.0	-4.0	-2.5	0.0	1.0	3.5	9.5	10.8	87.9	11.6	2.0
29	63.1	N	23:54	-3.5	-3.0	-3.0	-3.5	-2.0	0.0	1.0	3.5	6.3	10.9	57.9	9.6	4.1
Total												169.5	289.1	58.6	224.2	85.2
Mean				-13.4	-4.4	-4.1	-3.7	-1.9	0.4	1.4	3.7	1981-2010 Normal for Radiation				
Extreme	68.3	WNW	11:18	1971- 2000 Normal for Soil Temperatures								132.6	281.1	47.2	213.0	104.0
Date	2				-7.0	-6.7	-6.1	-3.5	-0.8	0.8	3.4	No. of Bright Sunshine days = 29				

Note: Red numbers indicate manual calculation; Red cell indicate data not available

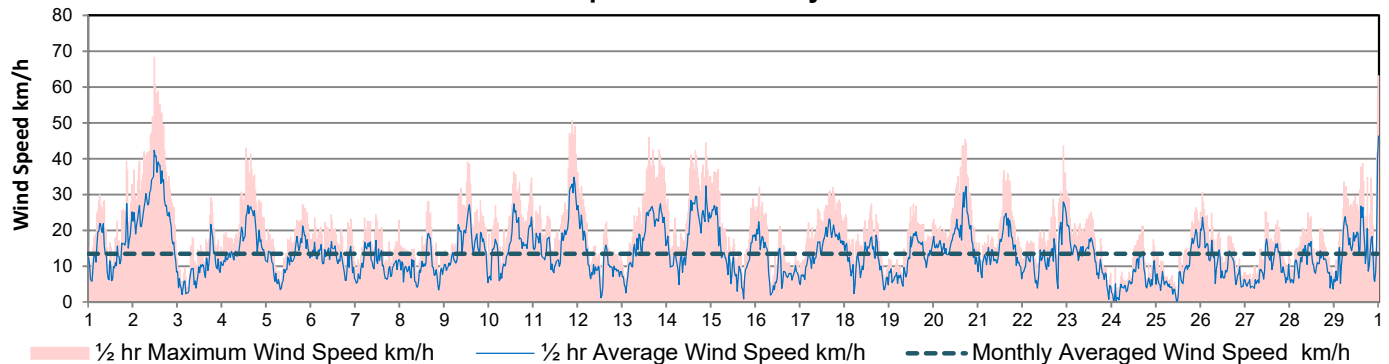
SRC proudly recognizes the following CRS supporters:



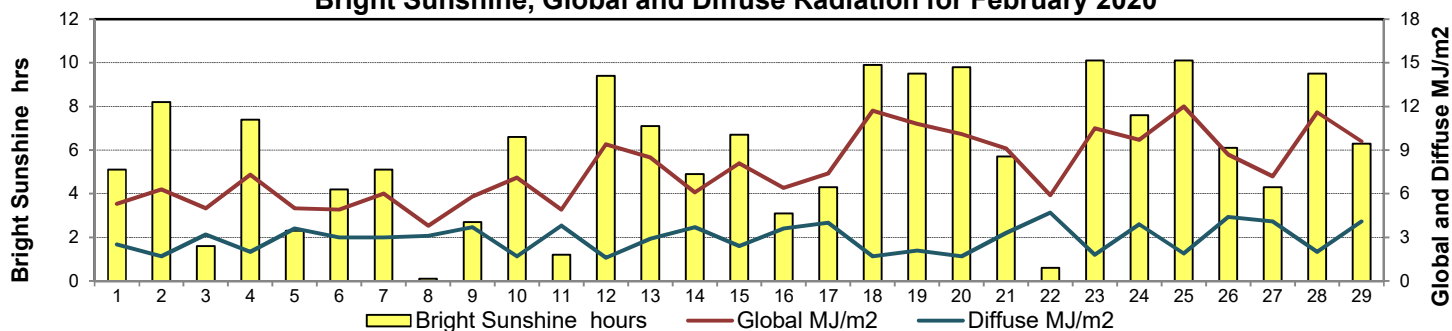
Agriculture and Agri-Food Canada / Agriculture et Agroalimentaire Canada



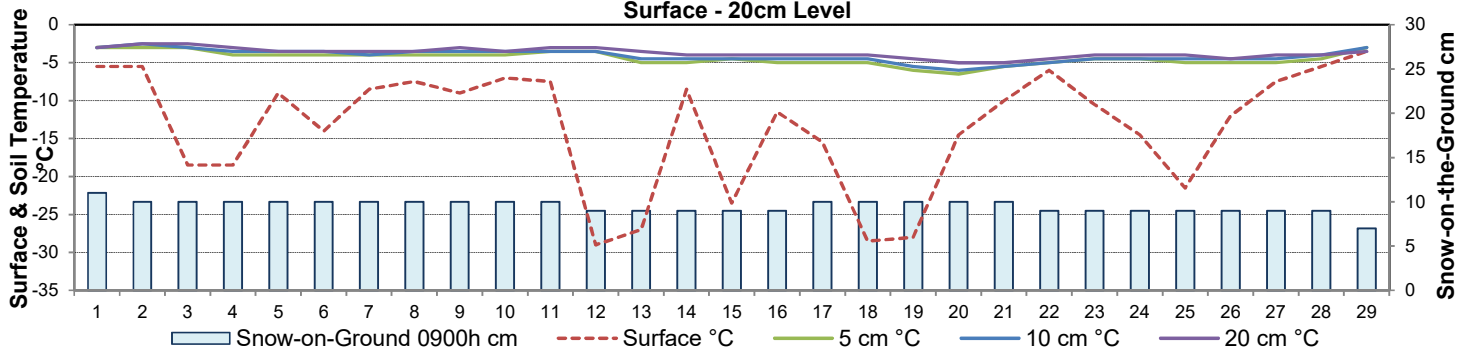
Wind Speed for February 2020



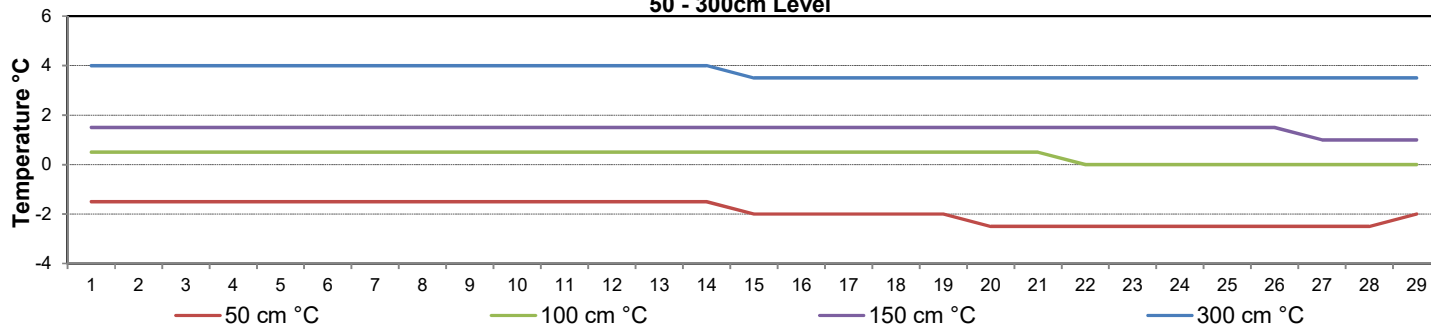
Bright Sunshine, Global and Diffuse Radiation for February 2020



**Soil Temperatures for February 2020
Surface - 20cm Level**



**Soil Temperatures for February 2020
50 - 300cm Level**





SRC CLIMATE REFERENCE STATION DAILY DATA REPORT

SASKATOON STATION 4057180

52°09' N 106°36' W 497 m asl Estab. 1963

Preliminary February 2020

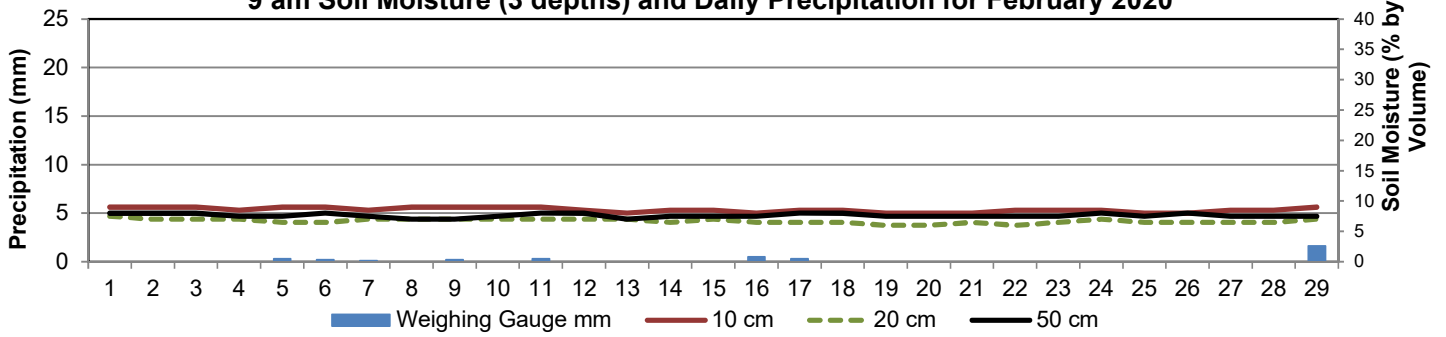
Day	2 meter Wind Speed			Soil Moisture at 0900 hrs (rounded to the 0.5%)														
	Daily Average	Max ½ hr Avg	½ hr Extreme Max	10 cm	20 cm	50 cm												
	km/h	km/h	km/h	% by volume (soil type is Loam (45.5% Sand, 41.1% Silt, 13.3% Clay))														
1	11.0	22.6	31.0	9.0	7.5	8.0												
2	22.0	35.1	60.4	9.0	7.0	8.0												
3	7.0	17.9	24.1	9.0	7.0	8.0												
4	14.0	23.5	35.6	8.5	7.0	7.5												
5	10.0	17.3	24.1	9.0	6.5	7.5												
6	10.0	14.1	21.2	9.0	6.5	8.0												
7	9.0	15.3	21.8	8.5	7.0	7.5												
8	8.0	15.0	21.8	9.0	7.0	7.0												
9	12.0	24.3	36.2	9.0	7.0	7.0												
10	13.0	22.8	32.1	9.0	7.0	7.5												
11	15.0	27.6	43.1	9.0	7.0	8.0												
12	9.0	19.1	27.0	8.5	7.0	8.0												
13	10.0	16.3	31.0	8.0	7.0	7.0												
14	16.0	26.4	37.9	8.5	6.5	7.5												
15	11.0	22.3	30.4	8.5	7.0	7.5												
16	8.0	20.1	29.3	8.0	6.5	7.5												
17	12.0	18.8	27.0	8.5	6.5	8.0												
18	9.0	15.9	23.5	8.5	6.5	8.0												
19	8.0	17.0	23.5	8.0	6.0	7.5												
20	15.0	28.2	41.9	8.0	6.0	7.5												
21	12.0	21.9	31.6	8.0	6.5	7.5												
22	11.0	23.3	35.0	8.5	6.0	7.5												
23	10.0	17.1	24.7	8.5	6.5	7.5												
24	5.0	11.8	17.2	8.5	7.0	8.0												
25	7.0	15.7	24.1	8.0	6.5	7.5												
26	9.0	17.9	28.1	8.0	6.5	8.0												
27	7.0	15.6	21.2	8.5	6.5	7.5												
28	8.0	15.6	24.1	8.5	6.5	7.5												
29	13.0	33.6	51.7	9.0	7.0	7.5												
30																		
31																		
Total																		
Mean				9	7	7.6												
Extreme	22.0	35.1	60.4	9	7.5	8												
Date	2	2	2	1	1	1												

Note: Red numbers indicate manual calculation; Red cell indicate data not available

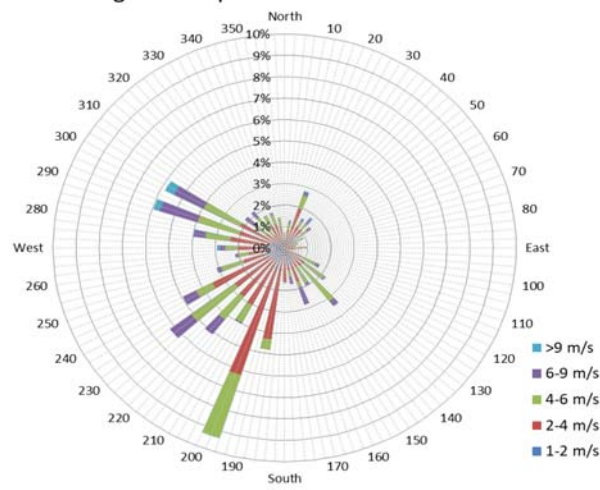
SRC proudly recognizes the following CRS supporters:



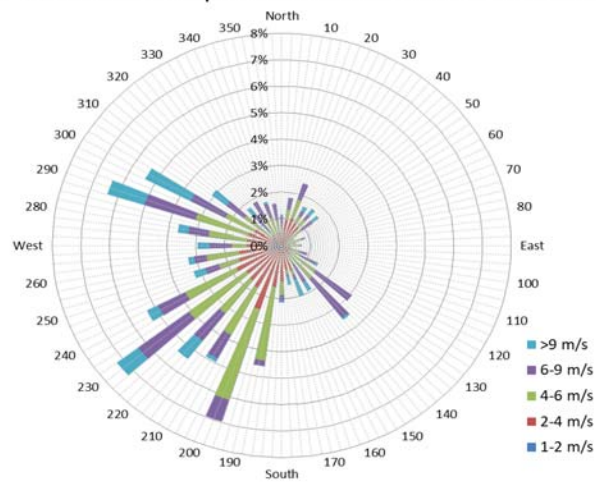
9 am Soil Moisture (3 depths) and Daily Precipitation for February 2020



10 minute Average Wind Speed and Direction Saskatoon Feb 2020



1/2 hr Maximum Wind Speed and Direction Saskatoon Feb 2020





SRC CLIMATE REFERENCE STATION DAILY DATA REPORT

SASKATOON STATION 4057180

52°09' N 106°36' W 497 m asl Estab. 1963

Preliminary **FEBRUARY 2020**

Extreme Records for February

Max/Min Temperature °C				Precipitation - Monthly mm				Wind Monthly km/h				CRS Bright Sunshine - Monthly			
S'toon Area	Date	Site	S'toon CRS Date	S'toon Area	Date	Site	S'toon CRS Date	S'toon Airport	Date	S'toon CRS**	Date	Hours	Year	No. of Days	Year
12.8	19/1931	SE	9.0 16/2017	43.7	1924	SE	40.2 1979	106 ^N	22/1988	82.3 ^{NNW}	10/2004	190.8	2018	28	1978&84
-50.0	01/1893	SM	-41.1 06/1972	0.0	multiply sites		1.9 2012					57.6	1983	17	1983&98

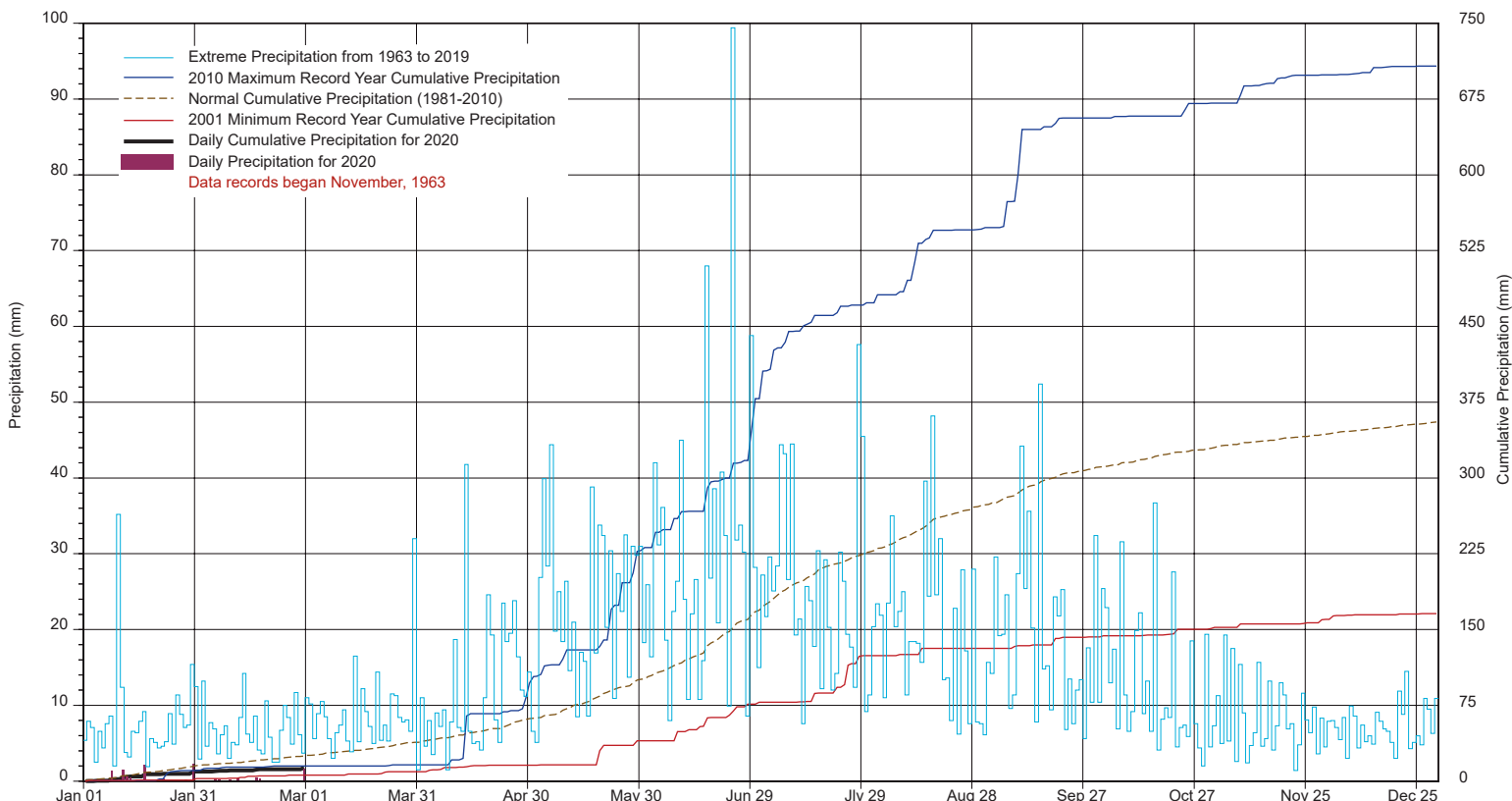
**1975 forward * more than one year

Notable Events for CRS Saskatoon - February						Saskatoon Area Stations			Glossary	
Element	Type	Day	New Record	Old Record	Year	Station	Operational Period	Code	Description	
Temperature	Highest Daily Maximum	1	6.0	6.0	1991	SM	NWMP c. 1892-1901	T	Trace of precipitation	
	No. of days with measurable bright sunshine	29	6.4	6.1	1968	SE	Eby 1901-1941	Normal	30 year average beginning with the decade	
Bright Sunshine	No. of days >= 1 hour of bright sunshine	29	29	28	1978	US	Univ. of Sask. 1915-1964	SOG	Depth of snow-on-the-ground in cm	
		27	27	26	1966	S	Saskatoon 1941-1942	na	not available	
						SA	Saskatoon A 1942 -	Degree-days		
						NRC	Nat. Res. Council 1952-1966	Tm	Mean Temperature	
						SRC	Sask. Res. Council 1963-	Growing	(Tm-5°C); if Tm ≤ 5°C then GDD = 0	
						SWT	S'toon Water Treatment Plant 1974 -	Heating	(18°C-Tm); if Tm ≤ 18°C then HDD = 0	
						SC	S'toon Central Ave 1974-1989	Cooling	(Tm-18°C); if Tm ≥ 18°C then CDD = 0	
						S1	Saskatoon 1 1976-1978	Extreme Cooling	(Tm-24°C); if Tm ≥ 24°C then CDD = 0	
						S2	Saskatoon 2 1977-1990	Manual Snow Depths (average of 3 meter sticks located inside climate station compound)		
						K	S'toon Kernen Farm 1993-2004			
						KCS	S'toon Kernen Farm CS 1996-			
						RCS	Environment Canada 2008-			
						SF	Sutherland Forestry 1943-1970	date	depth (cm)	
								Feb	5 12.5	
									13 13.5	
									20 15.0	
									25 13.7	

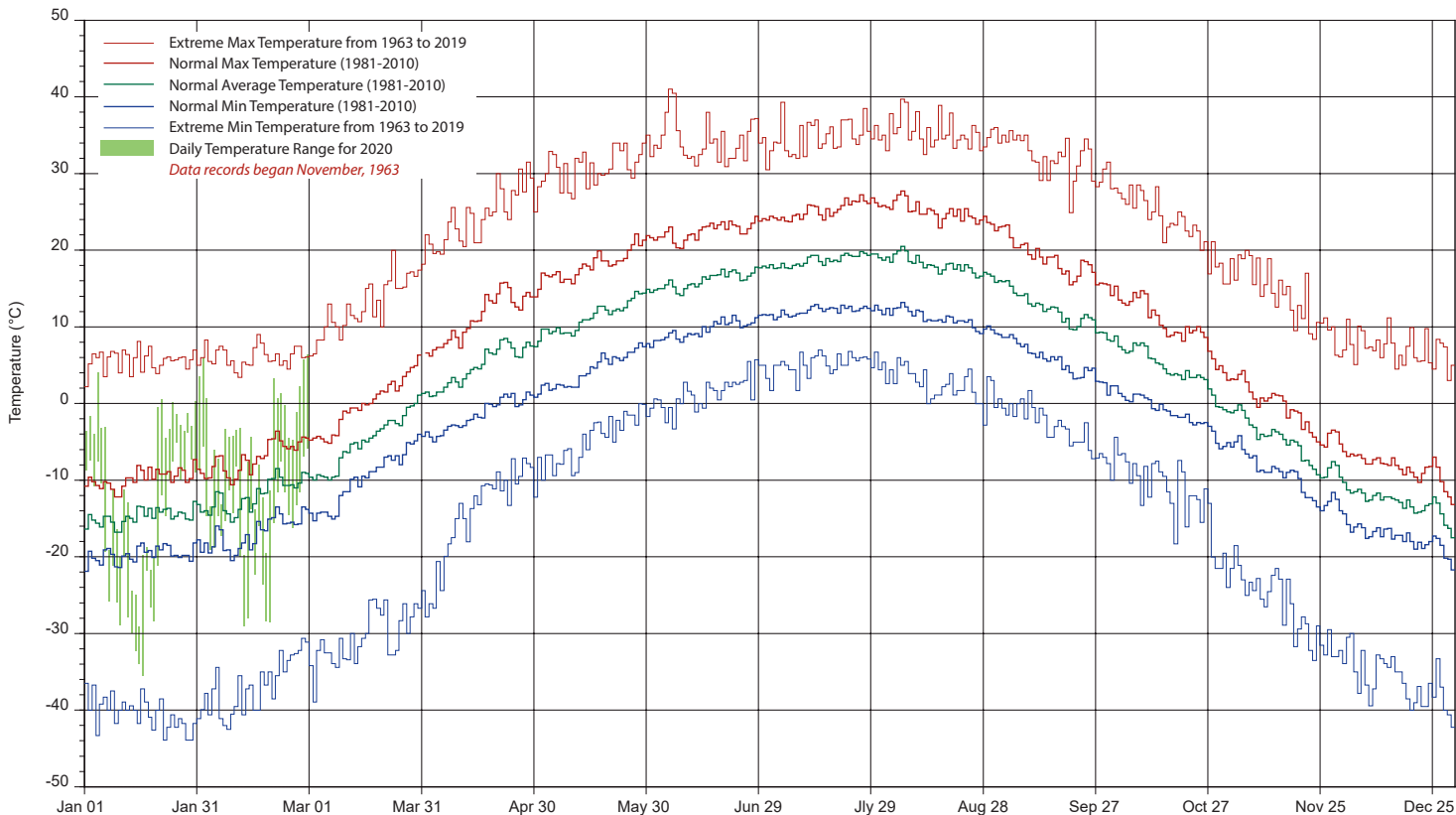
SRC proudly recognizes the following CRS supporters:



SASKATCHEWAN RESEARCH COUNCIL SASKATOON CLIMATE REFERENCE STATION 2020 PRECIPITATION AND NORMALS



2020 TEMPERATURES AND NORMALS



SRC proudly recongnizes the following CRS supporters:



Agriculture and Agri-Food Canada
Agriculture et Agroalimentaire Canada

