



SRC CLIMATE REFERENCE STATION DAILY DATA REPORT

SASKATOON STATION 4057180

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

Preliminary **APRIL 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	-13.2	6.6	-18.1	-3.7	-15.7	1.5	0.0	33.7	0.0	0.5	light snow	4	80	62	1023	1019
2	-11.9	6.2	-18.7	-4.4	-15.3	0.9	0.0	33.3	0.0	0.0		4	75	48	1026	1022
3	-7.3	7.0	-19.7	-5.0	-13.5	1.0	0.0	31.5	0.0	0.1		4	80	46	1026	1019
4	-7.8	7.3	-15.1	-4.3	-11.5	1.5	0.0	29.5	0.0	2.3	snow	4	90	50	1018	1014
5	-2.7	7.3	-14.6	-4.2	-8.7	1.5	0.0	26.7	0.0	0.5	light snow	8	90	76	1016	1010
6	1.8	7.8	-8.2	-3.5	-3.2	2.1	0.0	21.2	0.0	7.1	snow	8	96	75	1010	1000
7	3.9	8.3	-10.2	-3.0	-3.2	2.7	0.0	21.2	0.0	0.0		10	89	57	1010	1001
8	0.0	9.5	-8.3	-2.8	-4.2	3.4	0.0	22.2	0.0	0.1	very light snow	7	83	56	1022	1010
9	4.1	8.6	-12.1	-2.9	-4.0	2.8	0.0	22.0	0.0	0.0		6	85	46	1024	1010
10	4.1	7.2	-2.6	-3.1	0.8	2.1	0.0	17.2	0.0	0.0		4	84	48	1015	1008
11	-2.4	9.3	-6.8	-2.9	-4.6	3.2	0.0	22.6	0.0	0.0		0	75	50	1020	1016
12	-5.0	9.8	-9.8	-2.2	-7.4	3.9	0.0	25.4	0.0	0.0		0	78	49	1022	1020
13	-5.4	10.8	-12.6	-2.1	-9.0	4.4	0.0	27.0	0.0	0.0		0	76	52	1024	1019
14	3.0	10.7	-11.9	-1.4	-4.5	4.7	0.0	22.5	0.0	0.0		0	82	27	1019	1014
15	-0.3	10.8	-7.6	-1.8	-4.0	4.5	0.0	22.0	0.0	0.0		0	85	41	1024	1016
16	4.7	12.0	-3.2	-1.9	0.8	5.1	0.0	17.2	0.0	0.0	very light snow	0	86	46	1024	1011
17	10.1	14.2	0.1	0.0	5.1	7.1	0.1	12.9	0.0	0.0	very light rain	0	73	46	1023	1000
18	3.9	13.4	-0.9	-0.1	1.5	6.6	0.0	16.5	0.0	0.1		0	82	44	1013	1004
19	12.7	13.1	-1.7	-0.4	5.5	6.4	0.5	12.5	0.0	0.0		0	77	33	1012	1003
20	8.3	14.3	0.7	-0.2	4.5	7.1	0.0	13.5	0.0	0.0		0	86	39	1012	1005
21	21.2	15.7	-0.4	0.8	10.4	8.3	5.4	7.6	0.0	0.0		0	76	26	1008	1002
22	16.2	15.8	3.3	1.2	9.8	8.5	4.8	8.2	0.0	0.0		0	82	30	1007	1005
23	18.2	15.1	0.7	0.8	9.5	8.0	4.5	8.5	0.0	0.1		0	84	22	1011	1005
24	14.7	13.2	1.4	1.3	8.1	7.2	3.1	9.9	0.0	1.8	light rain	0	90	40	1016	1011
25	18.8	12.6	-0.2	-0.4	9.3	6.1	4.3	8.7	0.0	0.0		0	94	17	1018	1005
26	13.8	12.2	4.2	-0.2	9.0	6.0	4.0	9.0	0.0	2.2	light rain	0	89	27	1009	999
27	16.7	14.0	0.7	0.5	8.7	7.3	3.7	9.3	0.0	0.0		0	88	32	1010	1004
28	18.7	14.5	2.7	1.5	10.7	8.0	5.7	7.3	0.0	0.0		0	81	20	1017	1005
29	22.9	13.9	4.0	1.1	13.5	7.5	8.5	4.5	0.0	0.0		0	67	15	1017	1009
30	28.5	13.9	6.0	0.8	17.3	7.4	12.3	0.7	0.0	0.0		0	65	18	1009	997
Total							56.9	524.3	0.0	14.8			Extreme / Date	Extreme / Date	Extreme / Date	Extreme / Date
Avg	6.3	11.2	-5.3	-1.4	0.5	4.9	1981-2010 Normal			22.9	Normal					
Extreme Date	28.5		-19.7				65.2	402.4	0.2	40.5	Cumulative		96	15	1026	997
Date	30		3							61.5	Cumulative Normal		6	29	2	30

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

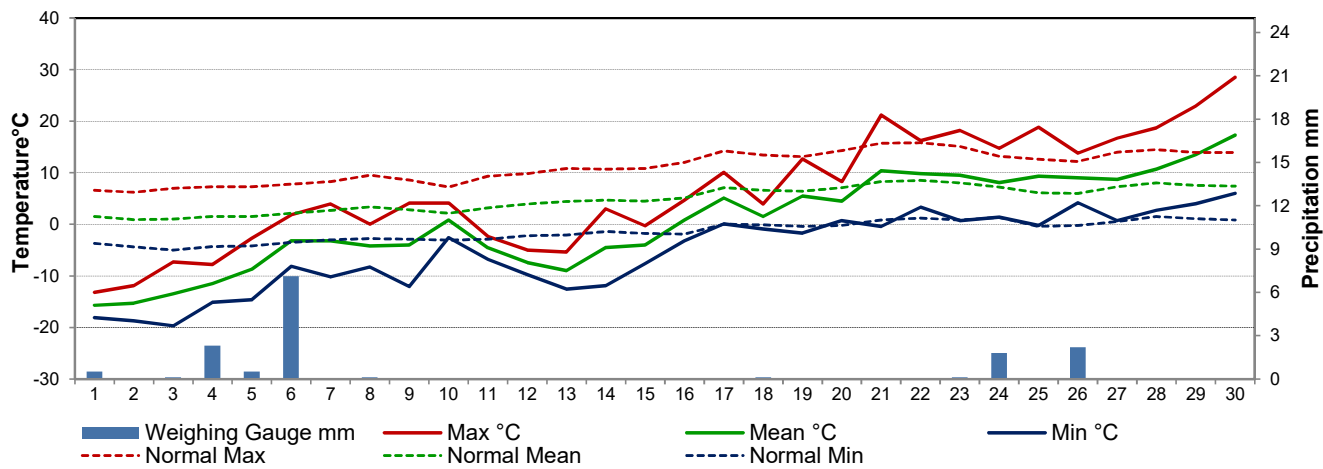
SRC proudly recognizes the following CRS supporters:



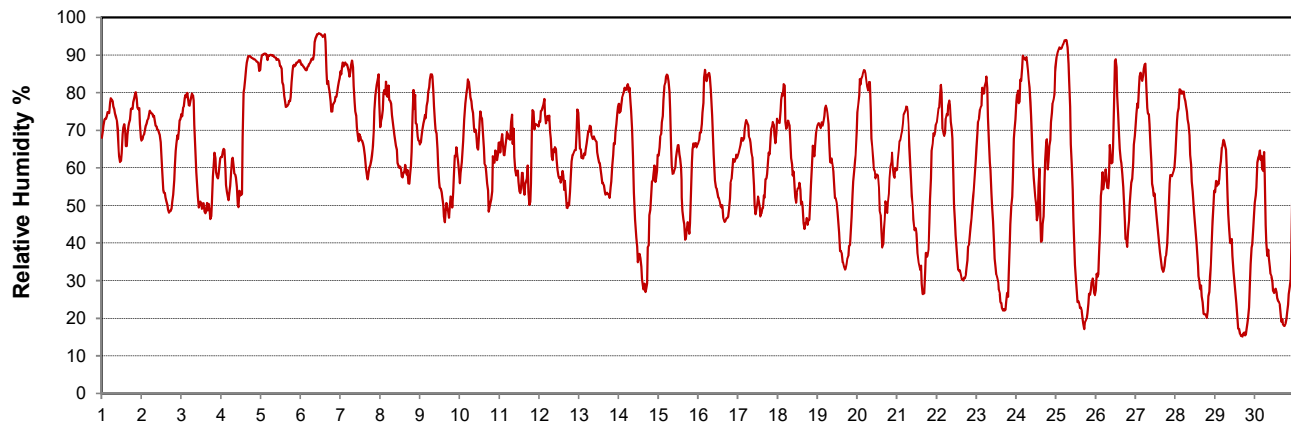
Agriculture and Agri-Food Canada / Agriculture et Agroalimentaire Canada



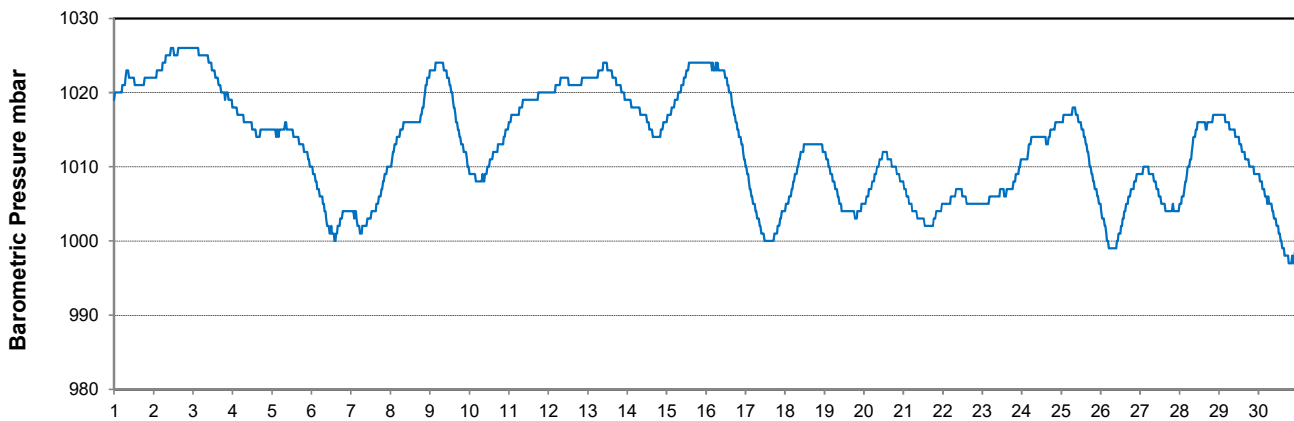
Temperature and Precipitation for April 2020



Relative Humidity for April 2020



Barometric Pressure Corrected to Sea Level for April 2020





SRC CLIMATE REFERENCE STATION DAILY DATA REPORT

SASKATOON STATION 4057180

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

Preliminary APRIL 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	41.0	WNW	13:36	-16.0	-0.5	0.0	-0.5	-1.0	0.0	1.0	3.0	0.2	13.0	1.5	11.4	8.6
2	38.9	NW	13:10	-18.0	-0.5	-0.5	-0.5	-0.5	0.0	1.0	3.0	11.4	13.1	87.0	20.4	3.0
3	21.3	E	15:37	-13.5	-2.0	-1.5	-1.0	-0.5	0.0	1.0	3.0	12.3	13.2	93.4	21.7	2.6
4	36.9	ENE	12:43	-11.5	-3.0	-2.5	-2.0	-0.5	0.5	1.0	3.0	0.7	13.2	5.3	9.1	7.0
5	28.4	E	23:02	-9.0	-3.0	-2.5	-2.5	-1.0	0.5	1.0	3.0	0.6	13.3	4.5	13.8	10.1
6	42.1	WNW	15:52	-1.5	-2.5	-2.0	-2.0	-1.0	0.5	1.0	3.0	1.3	13.4	9.7	6.9	5.1
7	52.8	NW	20:29	-7.5	-2.0	-2.0	-2.0	-1.0	0.5	1.0	3.0	11.9	13.4	88.5	19.7	7.3
8	68.0	WNW	13:07	-3.5	-2.0	-1.5	-2.0	-1.0	0.5	1.0	3.0	9.6	13.5	71.1	19.9	6.7
9	28.6	SW	14:48	-8.0	-2.0	-1.5	-1.5	-1.0	0.5	1.0	3.0	9.7	13.6	71.5	19.9	8.1
10	47.1	N	11:17	2.0	-1.5	-1.5	-1.5	-1.0	0.5	1.0	3.0	8.7	13.6	63.8	17.7	5.8
11	45.7	NNW	12:40	-5.5	-0.5	-0.5	-1.0	-1.0	0.5	1.0	3.0	5.9	13.7	43.1	15.7	7.3
12	42.2	NNW	13:51	-9.0	-0.5	-0.5	-1.0	-0.5	0.5	1.0	3.0	11.6	13.8	84.2	19.9	6.0
13	39.5	N	10:35	-11.0	-1.0	-0.5	-0.5	-0.5	0.5	1.0	3.0	13.3	13.8	96.2	22.0	4.8
14	22.9	ENE	18:31	-6.0	-2.0	-1.5	-1.0	-0.5	0.5	1.0	3.0	12.0	13.9	86.3	22.9	3.4
15	32.4	N	9:24	-4.5	-0.5	-0.5	-1.0	-0.5	0.5	1.0	3.0	13.2	14.0	94.6	21.4	6.2
16	33.7	WSW	16:21	-1.0	-0.5	-0.5	-0.5	-0.5	0.5	1.0	3.0	9.3	14.0	66.3	19.4	6.2
17	39.7	NW	17:05	3.0	0.0	0.0	-0.5	-0.5	0.5	1.0	3.0	3.1	14.1	22.0	12.5	8.3
18	44.8	NNW	8:30	1.0	0.0	0.0	-0.5	-0.5	0.5	1.0	3.0	10.2	14.2	72.0	19.0	6.5
19	46.4	W	11:29	2.0	0.0	0.0	0.0	-0.5	0.5	1.0	3.0	11.0	14.2	77.4	20.0	6.9
20	34.8	SE	22:52	3.5	0.0	0.5	0.0	-0.5	0.5	1.0	3.0	10.0	14.3	70.0	19.5	5.4
21	40.6	W	16:24	5.5	0.5	0.5	0.5	0.0	0.5	1.0	3.0	13.9	14.4	96.9	23.4	2.2
22	44.0	WNW	17:18	5.0	3.5	3.5	3.0	0.0	0.5	1.0	3.0	8.5	14.4	59.0	16.1	8.5
23	40.1	NNW	13:01	8.5	3.5	4.0	3.5	1.0	1.0	1.0	3.0	11.5	14.5	79.4	21.4	3.7
24	40.4	W	17:14	5.5	4.5	5.0	5.0	2.0	1.0	1.5	3.0	7.9	14.5	54.3	14.6	6.7
25	43.8	SSE	21:44	6.0	4.0	5.0	5.0	3.0	1.5	1.5	3.0	12.9	14.6	88.4	24.1	2.8
26	65.3	WNW	13:56	10.0	7.5	8.0	7.0	3.5	1.5	1.5	3.0	4.4	14.7	30.0	8.5	5.2
27	37.1	ESE	14:13	5.0	5.0	5.5	5.5	4.0	2.0	1.5	3.0	10.1	14.7	68.6	20.5	6.4
28	35.5	NE	7:14	4.0	6.5	7.0	7.0	4.5	2.0	2.0	3.0	9.7	14.8	65.6	20.6	4.4
29	27.1	SW	13:58	10.5	7.5	8.0	8.0	5.5	2.5	2.0	3.0	10.6	14.9	71.4	21.3	7.0
30	51.9	W	22:16	14.0	9.5	10.0	9.5	6.0	3.0	2.0	3.0	9.8	14.9	65.7	21.2	5.3
Total												265.3	419.63	63.2	544.5	177.5
Mean				-1.3	0.9	1.3	1.1	0.5	0.8	1.2	3.0	1981-2010 Normal for Radiation				
Extreme	68.0	WNW	13:07	1971- 2000 Normal for Soil Temperatures								227.2	418.5	54.3	486.9	186.9
Date	8			3.1	3.6	4.0	3.0	1.6	1.5	2.4	No. of Bright Sunshine days = 30					

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

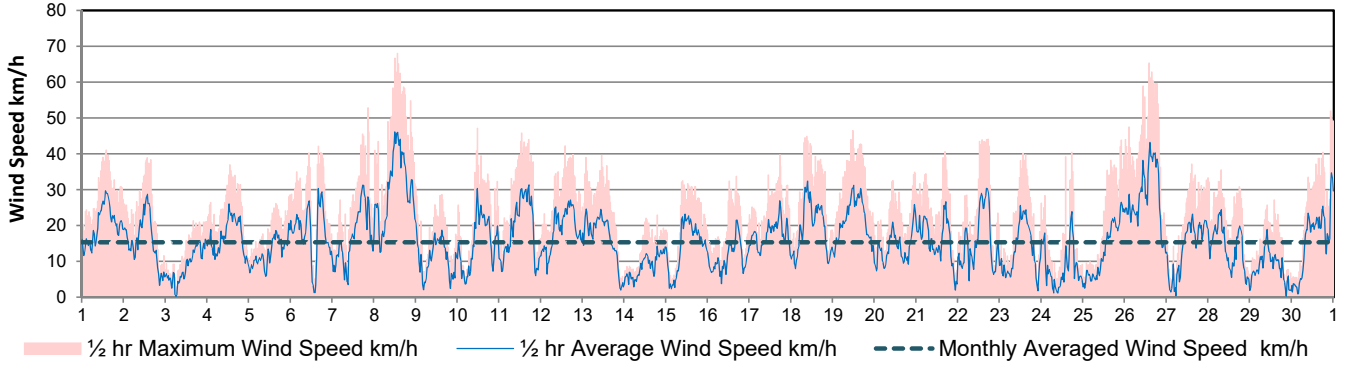
SRC proudly recognizes the following CRS supporters:



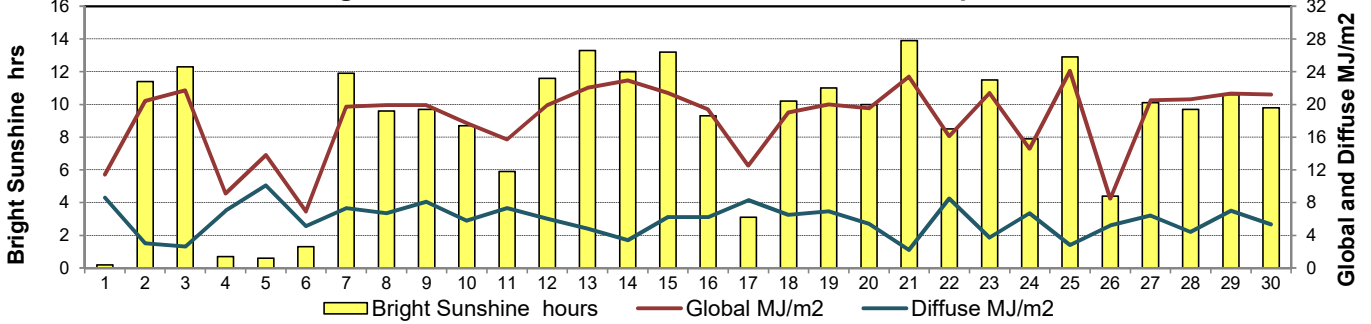
Agriculture and Agri-Food Canada
Agriculture et Agroalimentaire Canada



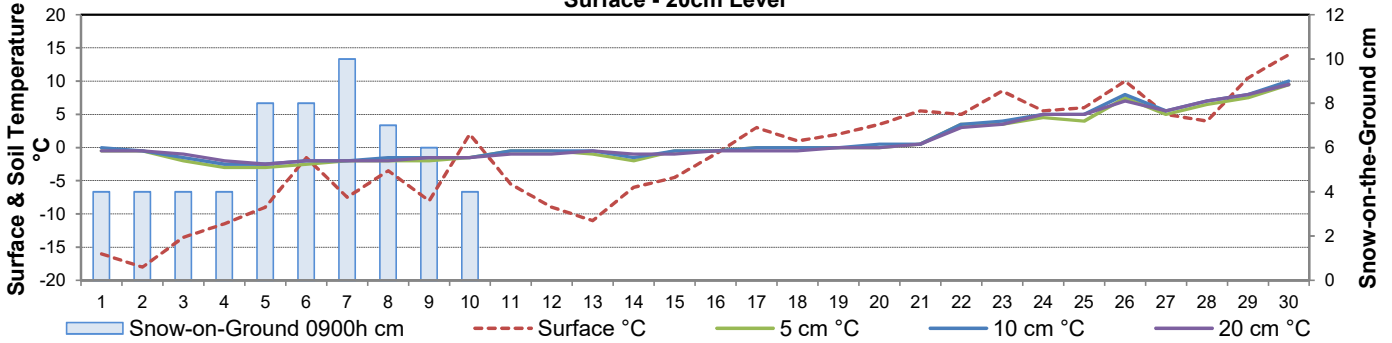
Wind Speed for April 2020



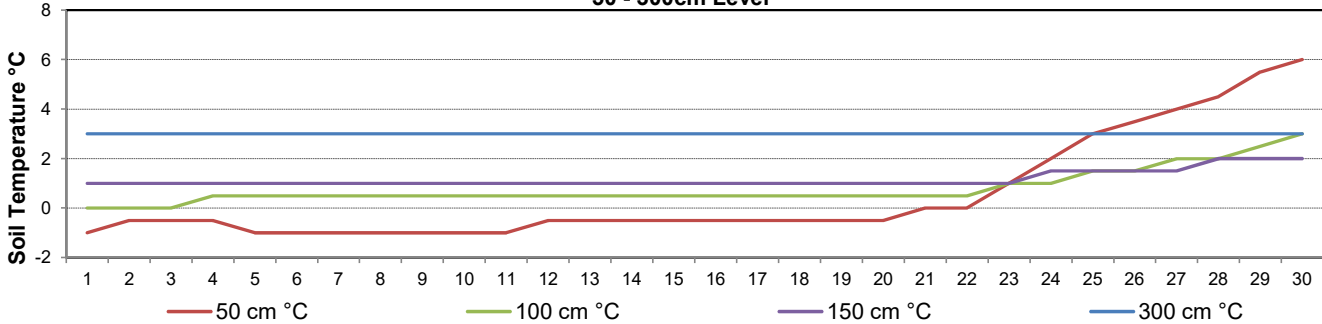
Bright Sunshine, Global and Diffuse Radiation for April 2020



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



**Soil Temperatures for April 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 April 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	16.0	23.3	33.9	29.5	7.5	8.0												
2	12.0	22.5	33.3	24.0	7.5	8.0												
3	7.0	12.6	18.9		7.5	7.5												
4	13.0	20.4	31.0		8.0	7.5												
5	11.0	17.6	25.8		7.0	8.0												
6	15.0	25.0	35.0		7.5	7.5												
7	13.0	25.1	47.1		7.5	7.5												
8	24.0	36.5	58.1		8.0	8.0												
9	9.0	15.8	24.1		8.0	7.5												
10	11.0	23.6	39.1		7.5	7.5												
11	15.0	24.3	37.3		8.0	7.5												
12	15.0	21.0	32.7		7.5	8.0												
13	13.0	19.1	30.4		8.0	8.0												
14	7.0	11.2	25.8		8.0	8.0												
15	11.0	18.1	27.0		8.0	8.0												
16	9.0	17.5	31.0		8.0	8.0												
17	14.0	20.5	31.0		8.0	8.0												
18	15.0	23.9	35.6	31.5	7.5	8.0												
19	16.0	23.2	36.2	33.0	8.0	8.0												
20	11.0	19.3	29.8	25.0	8.0	8.0												
21	12.0	20.0	33.9	25.0	8.0	8.0												
22	12.0	22.7	37.9	24.5	8.5	8.5												
23	10.0	19.8	33.3	24.0	9.0	8.0												
24	6.0	18.5	31.6	23.5	9.0	8.5												
25	9.0	17.4	36.8	23.0	9.0	8.5												
26	20.0	31.9	52.9	23.0	9.5	8.5												
27	11.0	18.5	31.0	22.5	9.5	9.0												
28	11.0	18.7	27.5	22.5	9.5	8.5												
29	7.0	14.8	22.4	22.0	10.0	8.5												
30	12.0	25.6	42.5	21.5	10.0	8.5												
Total																		
Mean				25	8	8.0												
Extreme	24.0	36.5	58.1	33	10	9												
Date	8	8	8	19	29	27												

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

SRC proudly recognizes the following CRS supporters:

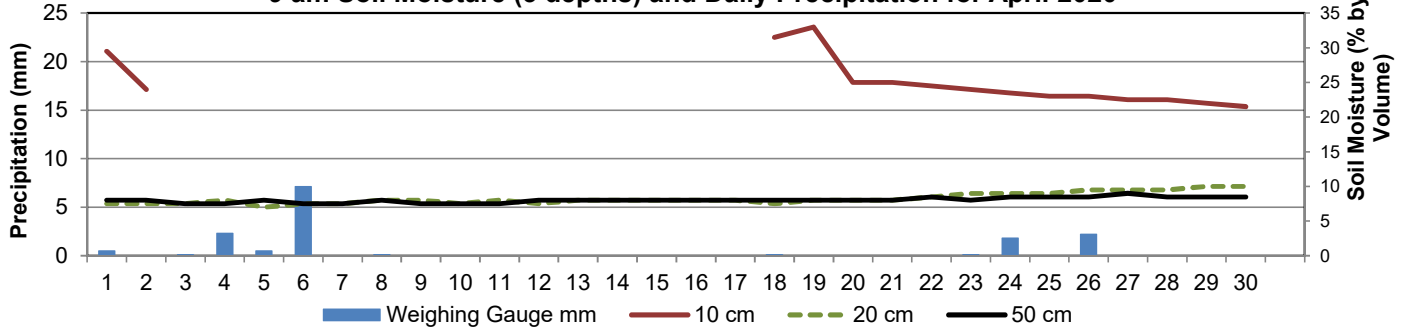


Agriculture and Agri-Food Canada

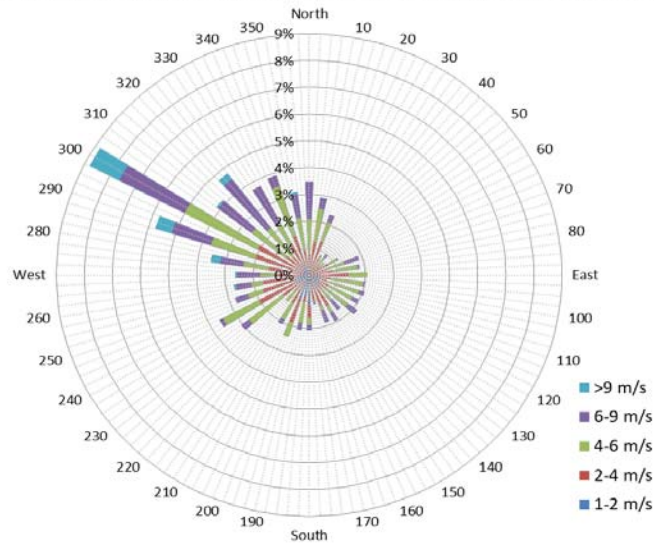
Agriculture et Agroalimentaire Canada



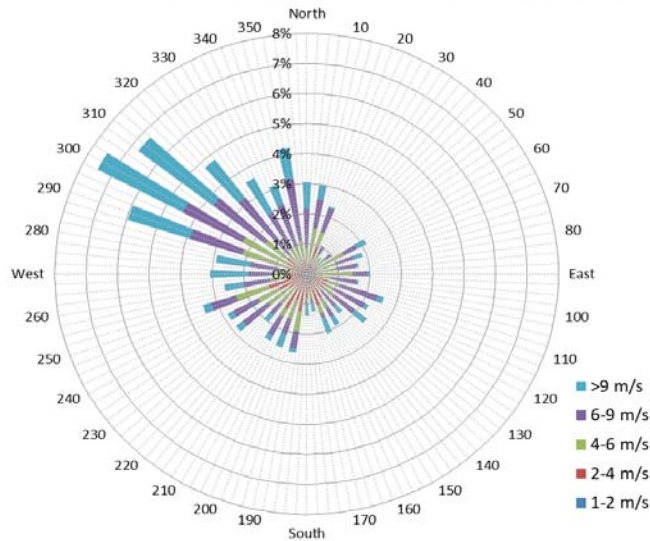
9 am Soil Moisture (3 depths) and Daily Precipitation for April 2020



10 minute Average Wind Speed and Direction Saskatoon Apr 2020



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





SRC CLIMATE REFERENCE STATION DAILY DATA REPORT

SASKATOON STATION 4057180

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

Preliminary APRIL 2020

Extreme Records for April

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
33.3	28/1952	SA US SF	31.5	28/2001	93.9	1955	SF	83.5	2014	108 ^W	06/1959	91.2 ^W	09/2010	312.5	2018	30	1968*
-30.5	01/1979	SWT	-27.8	01/1979	0.0	1897	SM	2.4	2007					165.7	1996	19	2003

**1975 forward * more than one year

Notable Events for CRS Saskatoon - April						Saskatoon Area Stations			Glossary	
Element	Type	Day	New Record	Old Record	Year	SM	NWMP	c. 1892-1901	T	Trace of precipitation
Temperature	Lowest Maximum Daily	1	-13.2	-10.0	1975	SE	Eby	1901-1941	Normal	30 year average beginning with the decade
		12	-5.0	-5.0	1986	US	Univ. of Sask.	1915-1964	SOG	Depth of snow-on-the-ground in cm
		13	-5.4	-5.0	1986	S	Saskatoon	1941-1942	na	not available
	Highest Maximum Daily	15	-0.3	-0.3	2001	SA	Saskatoon A	1942 -	Degree-days	
		30	28.5	25.0	1968	NRC	Nat. Res. Council	1952-1966	Tm	Mean Temperature
Lowest Mean Daily	13	-9.0	-8.0	1983	SRC	Sask. Res. Council	1963-	Growing	(Tm-5°C); if Tm ≤ 5°C then GDD = 0	
Growing Degree-day	Highest Daily GDD	30	12.3	11.8	1992	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
Heating Degree-day	Highest Daily HDD	12	25.4	24.8	1992	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	Date	Depth (cm)
						KCS	S'toon Kernen Farm CS	1996-	Apr 3	4
						RCS	Environment Canada	2008-	13	0
SF	Sutherland Forestry	1943-1970	21	0						

Tipping bucket set up ready for summer season April 29

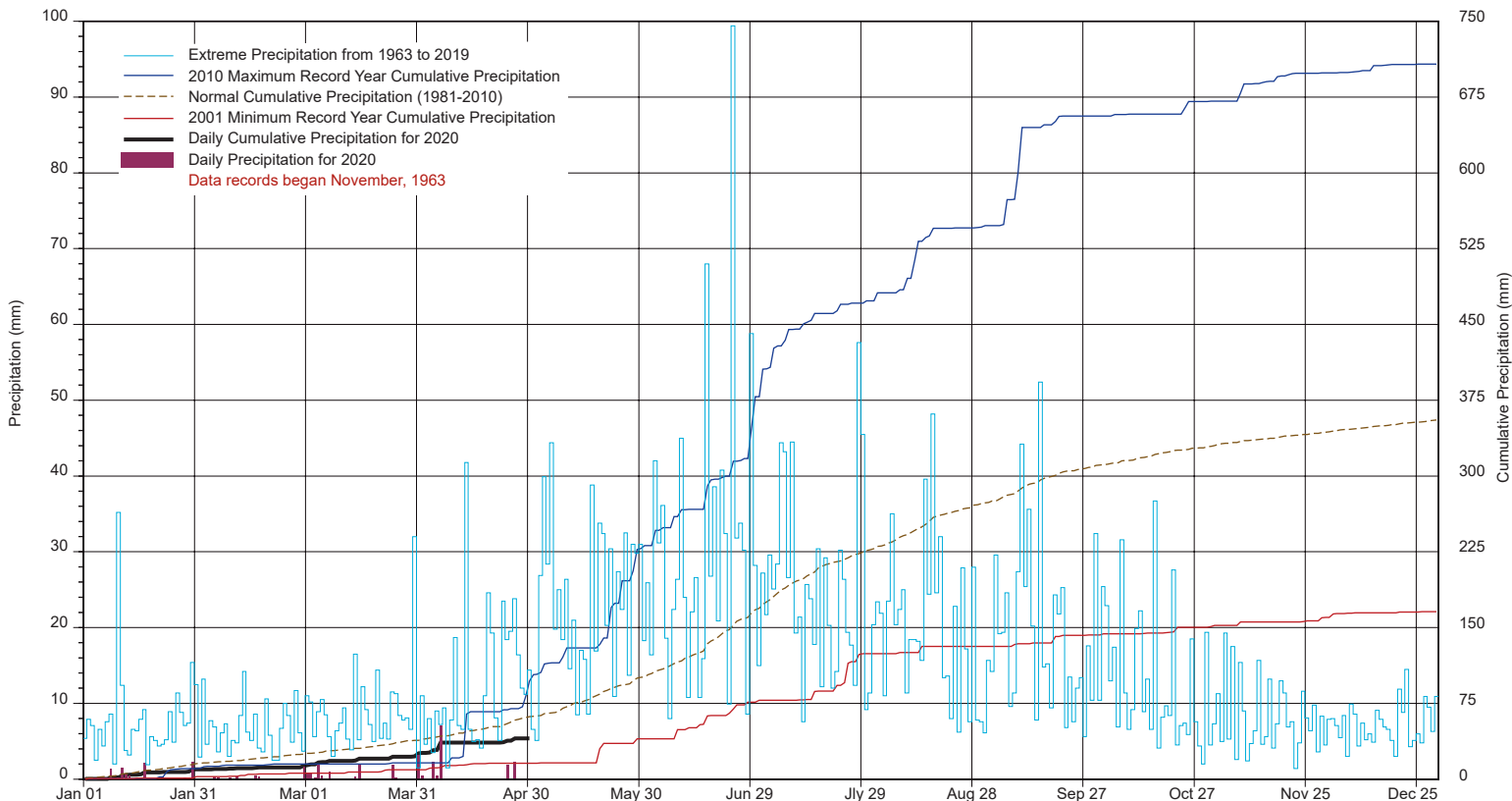
weird fact with the soil moisture sensors, when ground temperature is oscillating around freezing, they can give erroneous measurements hence the 10cm soil moisture level is missing data between Apr 3 and 17

spring maintenance carried out April 29

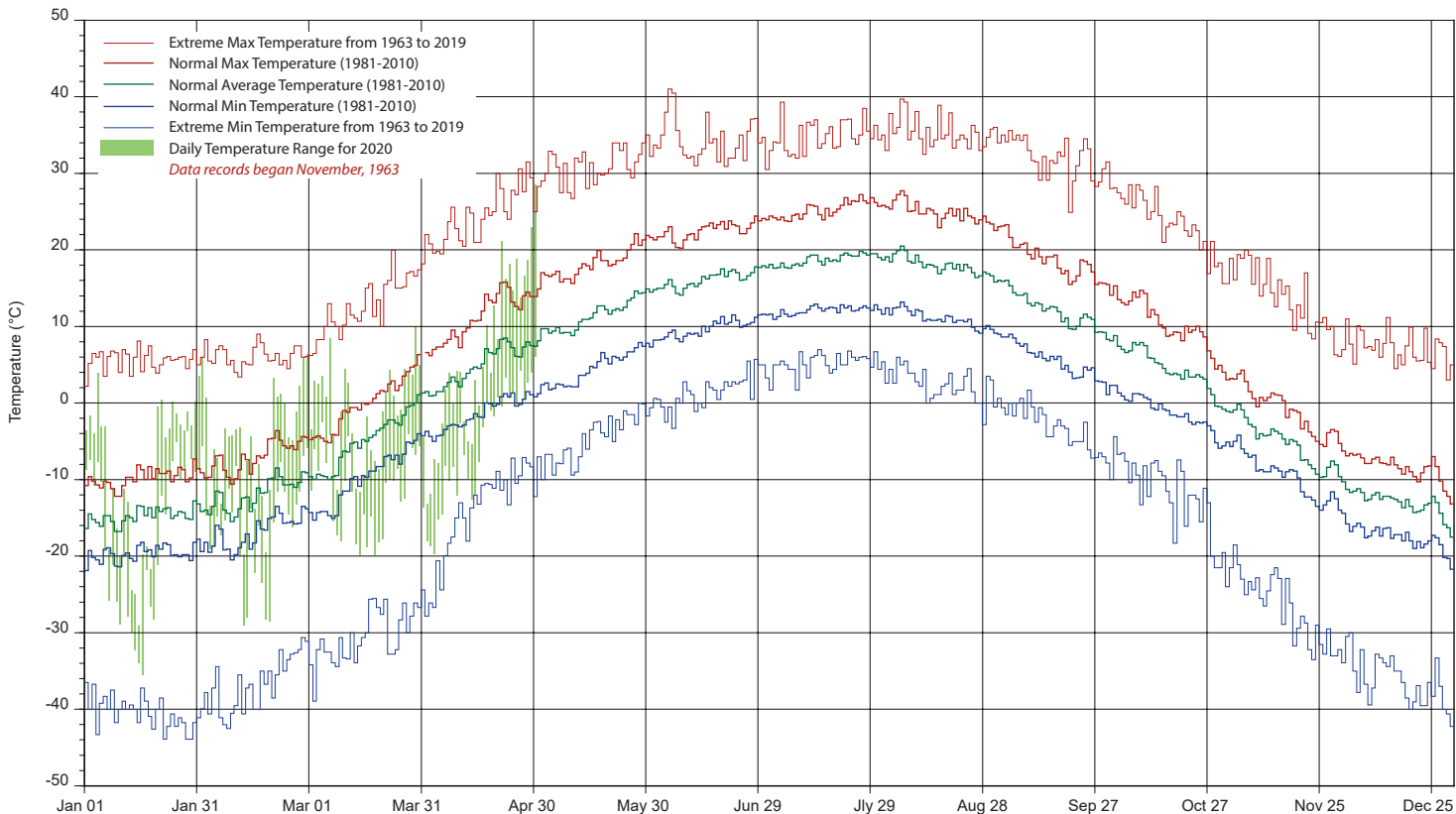
SRC proudly recognizes the following CRS supporters:



SASKATCHEWAN RESEARCH COUNCIL SASKATOON CLIMATE REFERENCE STATION 2020 PRECIPITATION AND NORMALS



2020 TEMPERATURES AND NORMALS



SRC proudly recognizes the following CRS supporters:



Agriculture and
Agri-Food Canada

Agriculture et
Agroalimentaire Canada

