



SRC CLIMATE REFERENCE STATION DAILY DATA REPORT

SASKATOON STATION 4057180

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

Preliminary **OCTOBER 2018**

Day	Temperature						Degree-days			Precipitation			Relative Humidity		Station Pressure (sea level)	
	Max	Normal Max	Min	Normal Min	Mean	Normal 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	1981-2010	°C	1981-2010	°C	1981-2010	5°C base	18°C base	18°C base	mm		cm	%	%	mbar	mbar
1	2.4	14.1	-0.6	2.3	0.9	8.1	0.0	17.1	0.0	1.5	light snow	-	97	66	1020	1014
2	5.8	15.3	-1.0	2.3	2.4	8.8	0.0	15.6	0.0	0.2	light snow	-	95	49	1017	1010
3	6.4	13.5	-2.6	1.3	1.9	7.4	0.0	16.1	0.0	0.0		-	82	35	1020	1009
4	6.4	13.1	-3.0	0.9	1.7	7.0	0.0	16.3	0.0	0.0		-	85	42	1020	1015
5	8.9	12.8	-3.5	0.4	2.7	6.6	0.0	15.3	0.0	0.0		-	93	38	1015	1014
6	12.0	13.3	-5.4	0.2	3.3	6.8	0.0	14.7	0.0	0.0		-	94	33	1019	1015
7	11.8	14.5	-0.7	1.2	5.6	7.9	0.6	12.4	0.0	0.0		-	91	50	1022	1019
8	0.1	13.8	-3.3	1.2	-1.6	7.6	0.0	19.6	0.0	0.1	light snow	-	90	79	1026	1022
9	4.9	14.7	-6.3	1.1	-0.7	7.9	0.0	18.7	0.0	0.0		-	91	29	1029	1026
10	5.7	14.3	-8.2	0.7	-1.3	7.5	0.0	19.3	0.0	0.0		-	90	40	1029	1021
11	7.2	11.2	-6.9	0.5	0.2	5.9	0.0	17.8	0.0	0.0		-	90	38	1021	1011
12	5.0	12.2	-1.3	-0.7	1.9	5.8	0.0	16.1	0.0	5.6	light rain	-	93	62	1011	999
13	-0.4	11.5	-3.1	-0.9	-1.8	5.3	0.0	19.8	0.0	0.0		-	70	56	1023	1009
14	4.2	10.2	-8.5	-0.1	-2.2	5.1	0.0	20.2	0.0	0.0		-	89	47	1024	1013
15	13.8	9.8	1.5	-0.8	7.7	4.5	2.7	10.3	0.0	0.0		-	67	29	1017	1008
16	10.0	8.7	-1.5	-1.0	4.3	3.9	0.0	13.7	0.0	0.0		-	85	38	1022	1017
17	21.2	8.9	1.0	-1.6	11.1	3.7	6.1	6.9	0.0	0.0		-	94	19	1022	1012
18	19.1	9.3	2.4	-1.6	10.8	3.9	5.8	7.2	0.0	0.0		-	73	24	1016	1010
19	13.5	9.2	-4.7	-1.8	4.4	3.7	0.0	13.6	0.0	0.0		-	79	35	1026	1016
20	14.8	8.1	-5.7	-1.8	4.6	3.1	0.0	13.4	0.0	0.0		-	77	33	1026	1010
21	14.2	10.0	0.5	-1.4	7.4	4.3	2.4	10.6	0.0	0.0		-	74	24	1019	1014
22	10.2	9.2	-4.0	-2.5	3.1	3.4	0.0	14.9	0.0	0.0		-	86	28	1025	1020
23	15.2	9.5	-1.8	-2.8	6.7	3.4	1.7	11.3	0.0	0.0		-	70	25	1023	1013
24	18.8	10.0	-0.4	-2.5	9.2	3.7	4.2	8.8	0.0	0.0		-	79	30	1012	1007
25	12.9	9.3	-1.3	-2.6	5.8	3.4	0.8	12.2	0.0	0.0		-	93	46	1008	1007
26	9.8	8.6	-1.3	-2.5	4.3	3.1	0.0	13.7	0.0	0.0		-	96	57	1009	1004
27	12.5	6.8	-1.4	-3.0	5.6	1.9	0.6	12.4	0.0	0.0		-	91	30	1012	1004
28	9.0	5.8	-1.9	-3.6	3.6	1.1	0.0	14.4	0.0	0.0		-	86	49	1015	1005
29	7.0	4.4	2.6	-5.2	4.8	-0.4	0.0	13.2	0.0	0.0		-	80	51	1009	1002
30	6.8	4.9	1.5	-5.9	4.2	-0.5	0.0	13.8	0.0	0.0		-	79	55	1013	1008
31	8.8	4.0	0.4	-5.6	4.6	-0.8	0.0	13.4	0.0	0.0		-	92	58	1013	1006
Total							24.9	442.8	0.0	7.4			Extreme / Date	Extreme / Date	Extreme / Date	Extreme / Date
Avg	9.6	10.4	-2.2	-1.2	3.7	4.6	1981-2010 Normal			19.2	Normal					
Extreme Date	21.2		-8.5				62.2	415.1	0.1	200.2	Cumulative		97	19	1029	999
	17		14							329.2	Cumulative No		1	17	9	12

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

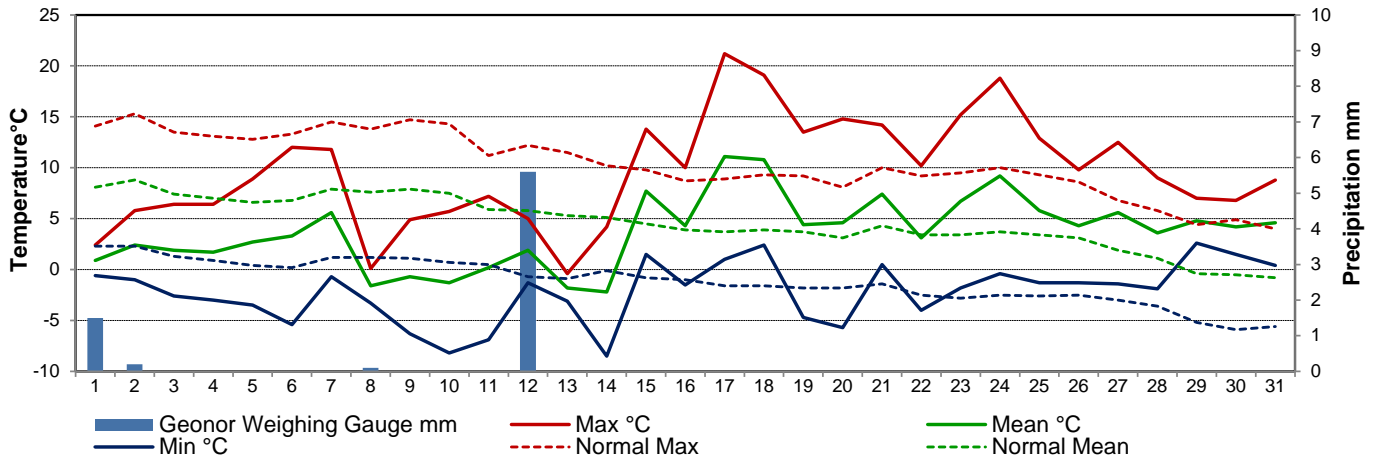
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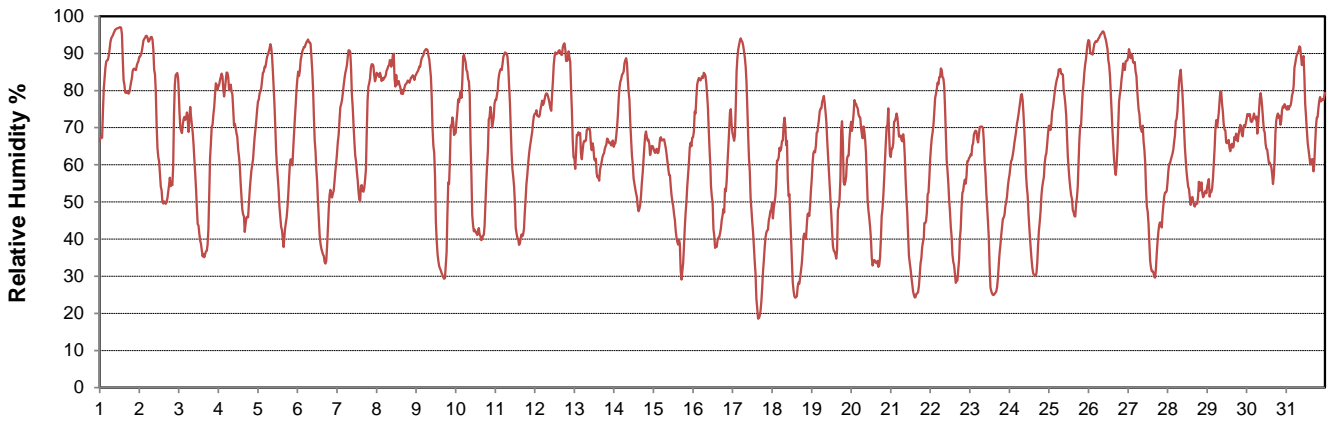
Agriculture and Agri-Food Canada / Agriculture et Agroalimentaire Canada



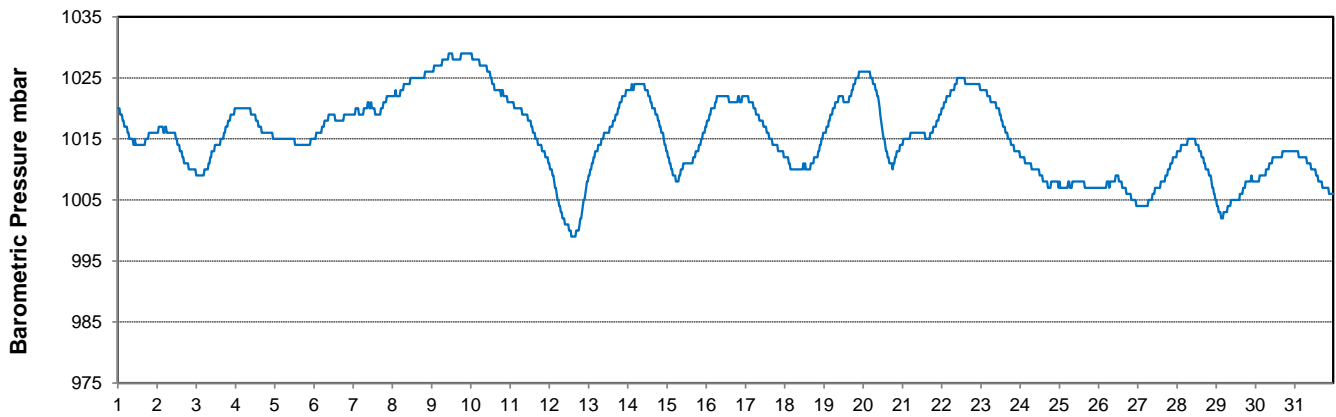
Temperature and Precipitation for October 2018



Relative Humidity for October 2018



Barometric Pressure Corrected to Sea Level for October 2018





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SASKATOON STATION 4057180

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

Preliminary **OCTOBER 2018**

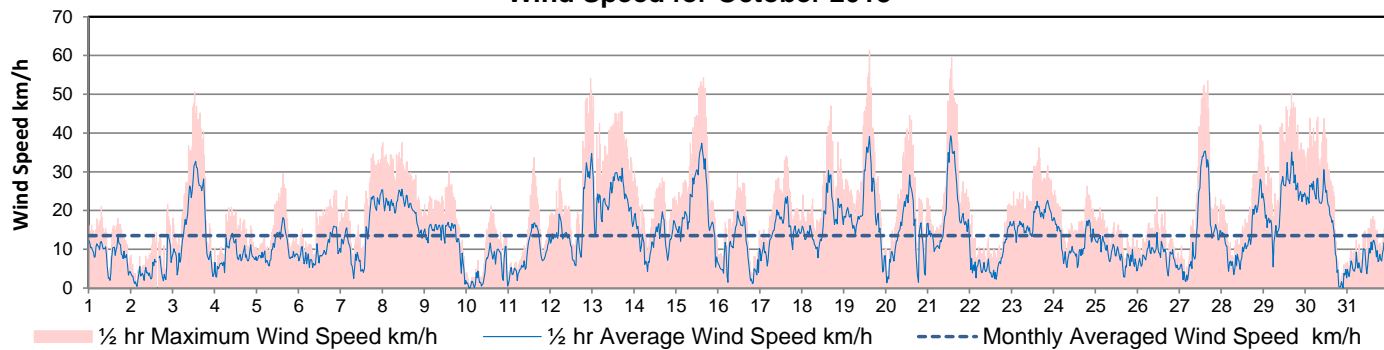
Day	Wind Gust			Soil Temperatures at 0900hrs								Radiation				
	Max	Direction	Time	Surface	5 cm	10 cm	20 cm	50 cm	100 cm	150 cm	300 cm	Bright Sunshine	Possible	% Possible	Global	Diffuse
	km/h			°C	°C	°C	°C	°C	°C	°C	°C	hours	hours		MJ/m ²	MJ/m ²
1	21.1	SE	7:05	-0.5	2.0	3.0	4.0	7.5	10.0	10.5	10.5	0.0	11.6	0.0	2.9	2.3
2	21.6	SSW	21:01	0.5	2.0	3.0	4.0	7.0	10.0	10.5	10.5	2.9	11.5	25.2	6.6	4.0
3	50.7	NW	12:32	0.0	2.5	3.5	4.5	7.0	9.5	10.5	10.5	6.4	11.5	55.8	11.1	3.2
4	20.9	SSE	9:45	-1.5	1.5	2.5	4.0	7.0	9.5	10.0	10.5	1.0	11.4	8.8	7.0	5.0
5	29.6	WSW	15:03	0.0	1.5	2.5	4.0	7.0	9.5	10.0	10.5	10.1	11.3	89.1	13.2	1.6
6	25.2	SSE	20:57	-2.5	1.5	2.5	4.0	7.0	9.0	10.0	10.0	10.5	11.3	93.2	13.5	1.5
7	36.5	ENE	23:56	1.5	2.0	3.0	4.0	7.0	9.0	9.5	10.0	10.3	11.2	92.0	11.8	2.0
8	37.5	ENE	0:20	-2.0	3.0	4.0	5.0	7.0	9.0	9.5	10.0	0.0	11.1	0.0	2.9	2.3
9	30.1	NE	14:16	-4.5	1.5	2.5	3.5	7.0	9.0	9.5	10.0	8.7	11.1	78.6	10.9	1.9
10	21.2	NE	14:25	-5.0	0.5	1.5	3.0	6.5	8.5	9.5	10.0	10.6	11.0	96.4	12.6	1.1
11	33.7	WNW	14:54	-3.5	0.5	1.0	2.0	6.0	8.5	9.5	10.0	10.5	10.9	96.0	12.5	1.3
12	54.1	NNW	0:34	1.5	0.5	1.0	2.0	5.5	8.5	9.0	10.0	0.0	10.9	0.0	2.3	1.9
13	49.4	N	23:28	-2.5	1.0	2.0	2.5	5.5	8.0	9.0	10.0	0.0	10.8	0.0	2.5	2.0
14	30.0	NNW	0:24	-6.5	0.5	1.0	2.0	5.5	8.0	9.0	10.0	9.9	10.7	92.2	11.8	1.2
15	54.3	WNW	15:43	5.5	0.5	1.0	1.5	5.0	8.0	9.0	9.5	8.7	10.7	81.5	9.2	3.3
16	29.6	NW	11:29	0.0	1.0	2.0	2.5	5.0	8.0	9.0	9.5	7.3	10.6	68.8	9.0	2.8
17	34.1	WSW	15:07	3.5	1.5	2.0	3.0	5.5	7.5	8.5	9.5	10.2	10.5	96.8	10.7	1.0
18	47.1	NW	16:39	4.5	2.5	3.5	4.0	5.5	7.5	8.5	9.5	7.5	10.5	71.6	7.9	3.1
19	61.3	NW	14:48	2.5	3.5	4.5	5.0	6.0	7.5	8.5	9.5	9.6	10.4	92.2	9.9	1.3
20	44.5	S	13:35	-3.0	1.5	2.5	4.0	6.5	7.5	8.5	9.5	8.9	10.4	86.0	9.6	1.6
21	59.5	WNW	13:31	2.5	1.5	2.5	3.5	6.0	7.5	8.5	9.5	9.9	10.3	96.3	10.0	1.0
22	21.7	SE	22:59	-2.0	1.0	2.5	3.5	6.0	7.5	8.5	9.5	9.9	10.2	96.9	9.8	0.9
23	36.3	SSE	15:50	-1.0	1.0	1.5	2.5	5.5	7.5	8.5	9.5	9.6	10.2	94.5	9.3	1.0
24	26.3	SE	19:10	1.0	1.5	2.5	3.0	5.5	7.5	8.0	9.0	9.5	10.1	94.2	8.9	1.0
25	20.7	SE	2:47	1.0	2.5	3.5	4.0	5.5	7.5	8.0	9.0	5.9	10.0	58.8	7.4	2.1
26	23.5	WNW	11:19	0.0	3.0	3.5	4.0	6.0	7.5	8.0	9.0	3.8	10.0	38.2	4.9	2.2
27	53.5	WNW	16:13	2.0	2.0	2.5	3.5	6.0	7.5	8.0	9.0	7.4	9.9	74.7	7.9	1.5
28	42.1	SSE	22:18	-1.5	2.0	3.0	4.0	5.5	7.5	8.0	9.0	6.0	9.8	61.0	6.5	2.1
29	50.4	NW	16:17	3.0	3.0	3.5	4.0	5.5	7.0	8.0	9.0	1.3	9.8	13.3	2.8	1.9
30	44.1	NW	7:16	1.5	3.5	4.0	4.0	6.0	7.0	8.0	9.0	4.5	9.7	46.3	5.1	3.0
31	18.5	SSW	14:56	0.0	2.5	3.5	4.0	6.0	7.0	8.0	9.0	6.1	9.7	63.2	5.9	2.7
Total												207.0	329.0	62.9	256.4	63.8
Mean				-0.2	1.8	2.6	3.5	6.1	8.2	9.0	9.7	1981-2010 Normal for Radiation				
Extreme	61.3	NW	14:48	1971- 2000 Normal for Soil Temperatures								156.1	329.2	47.4	239.0	97.2
Date	19			4.3	4.7	6.2	8.3	9.2	9.6	9.4	No. of Bright Sunshine days = 27					

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

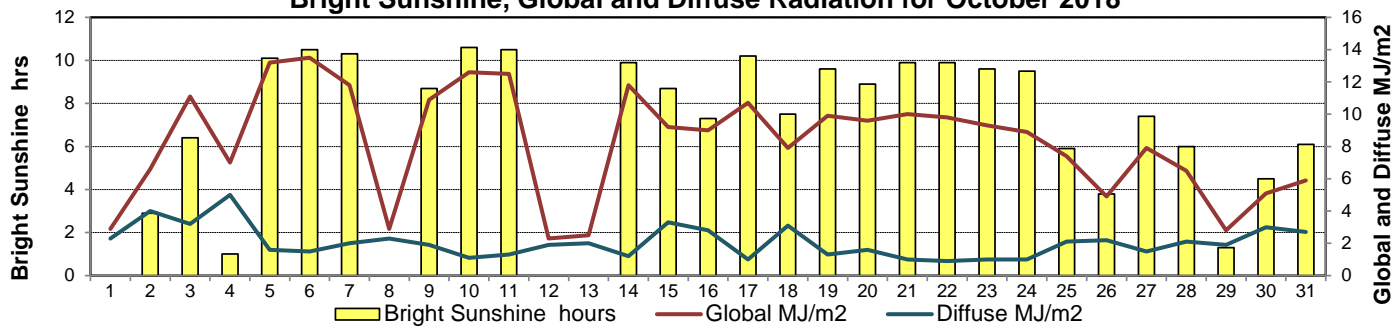
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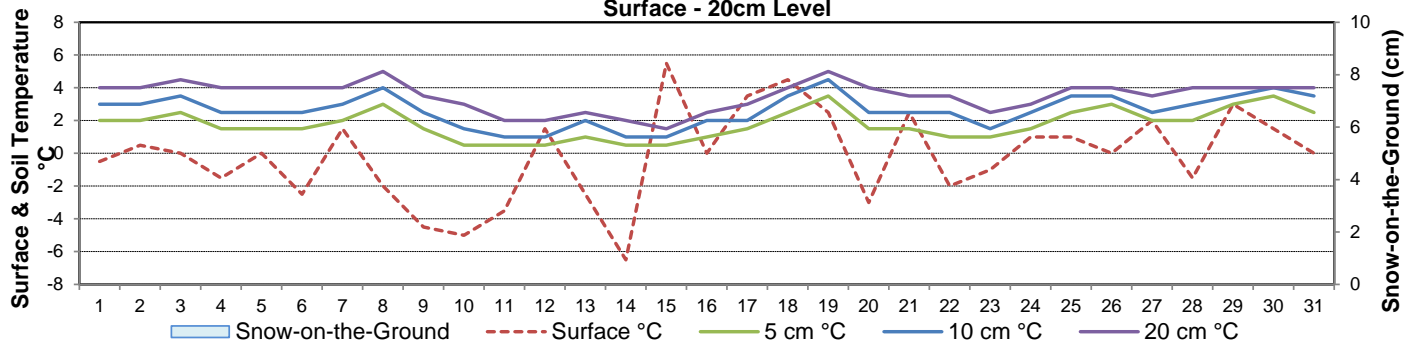
Wind Speed for October 2018



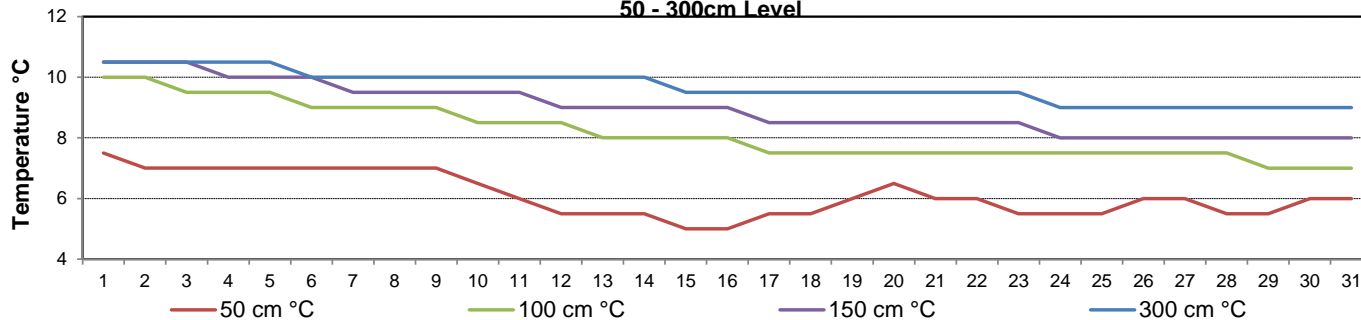
Bright Sunshine, Global and Diffuse Radiation for October 2018



Soil Temperatures for October 2018 Surface - 20cm Level



Soil Temperatures for October 2018 50 - 300cm Level





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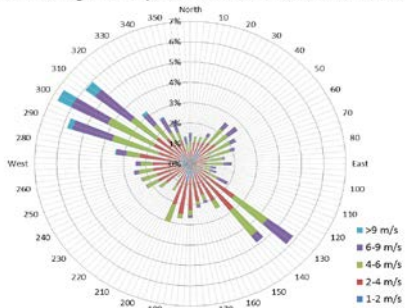
Extreme Records for October

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
32.2	05/1943	SA US SF	28.5 06/08/1980,'84	72.4	1969	SF	69.8 1969	138 ^{NW}	16/1967	97	1976	231.3	2010	31	1965, 88
-25.6	26/1919	SE US	-21.5 29/1991	0.0	1965*	NRC*	0.0 2000					61.1	2016	19	2016

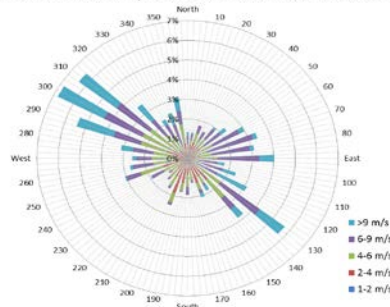
**1975 forward * more than one year/site

Notable Events for CRS Saskatoon - October						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	2.4	3.0	1989	SE	Eby	1901-1941	Normal	30 year average beginning with the decade
	Lowest Maximum Daily	13	-0.4	0.5	2009	US	Univ. of Sask.	1915-1964	SOG	Depth of snow-on-the-ground in cm
	Lowest Minimum Daily	10	-8.2	-7.8	1973	S	Saskatoon	1941-1942	na	not available
	Lowest of the Highest Daily Minimum Monthly Temperature for the entire month	29	2.6	4.0	2001 / 1	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	4-Oct-18		
					K	S'toon Kernen Farm	1993-2004	Tipping bucket capped for winter		
					KCS	S'toon Kernen Farm CS	1996-	Manual snow gauges installed		
					RCS	Environment Canada	2008-	17-Oct-18 empty and re-charge all-season precipitation gauge (Geonor), swap dessicant from the radition sensors, install new soil moisture sensors into the ground (not yet activated)		
					SF	Sutherland Forestry	1943-1970	23-Oct-18 New datalogger program installed		

10 minute Average Wind Speed and Direction Saskatoon Oct 2018



1/2 hr Maximum Wind Speed and Direction Saskatoon Oct 2018



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