



SRC CLIMATE REFERENCE STATION DAILY DATA REPORT

SASKATOON STATION 4057180

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

Preliminary **SEPTEMBER 2017**

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	Tipping Bucket	Notes	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	mm		%	%	mbar	mbar
1	24.3	23.0	12.6	9.0	18.5	16.0	13.5	0.0	0.5	0.0	0.0		69	24	1013	1007
2	24.4	23.1	12.0	8.6	18.2	15.9	13.2	0.0	0.2	0.0	0.0		59	24	1015	1010
3	22.8	23.3	13.3	8.6	18.1	16.0	13.1	0.0	0.1	0.0	0.0		69	31	1019	1011
4	20.6	21.6	8.5	9.0	14.6	15.3	9.6	3.4	0.0	0.0	0.0		80	30	1026	1019
5	23.2	20.3	5.6	8.5	14.4	14.4	9.4	3.6	0.0	0.0	0.0		85	23	1027	1020
6	30.2	20.3	8.6	7.8	19.4	14.1	14.4	0.0	1.4	0.0	0.0		67	13	1020	1014
7	28.4	20.7	8.8	7.4	18.6	14.1	13.6	0.0	0.6	0.0	0.0		92	25	1017	1014
8	33.1	20.9	11.6	7.7	22.4	14.3	17.4	0.0	4.4	0.0	0.0		74	13	1015	1009
9	31.1	19.4	17.3	6.6	24.2	13.0	19.2	0.0	6.2	0.0	0.0		53	24	1009	1003
10	24.8	18.8	12.5	6.5	18.7	12.7	13.7	0.0	0.7	0.0	0.0		70	19	1016	1003
11	28.8	20.2	7.9	6.0	18.4	13.1	13.4	0.0	0.4	0.0	0.0		61	15	1017	1007
12	24.5	19.1	7.8	6.7	16.2	12.9	11.2	1.8	0.0	0.0	0.0		70	18	1013	1006
13	14.2	18.2	7.9	5.8	11.1	12.0	6.1	6.9	0.0	9.3	9.2	rain	93	51	1015	1012
14	11.0	19.1	4.3	5.5	7.7	12.3	2.7	10.3	0.0	0.0	0.0		89	67	1021	1015
15	14.9	19.1	4.7	6.1	9.8	12.6	4.8	8.2	0.0	0.0	0.0		91	39	1024	1021
16	13.3	19.3	4.7	5.7	9.0	12.5	4.0	9.0	0.0	0.0	0.0		92	42	1024	1019
17	15.4	17.6	3.6	6.1	9.5	11.9	4.5	8.5	0.0	0.0	0.0		92	36	1024	1010
18	21.0	16.9	6.1	4.4	13.6	10.6	8.6	4.4	0.0	0.0	0.0		79	30	1010	1000
19	15.0	17.3	6.4	4.9	10.7	11.1	5.7	7.3	0.0	24.3	22.0	rain	94	58	1000	996
20	16.7	15.5	2.0	4.0	9.4	9.7	4.4	8.6	0.0	0.0	0.0		90	31	998	994
21	10.0	15.9	2.0	3.2	6.0	9.6	1.0	12.0	0.0	0.0	0.0		89	66	1013	999
22	9.1	16.6	3.7	3.3	6.4	10.0	1.4	11.6	0.0	0.0	0.0		93	68	1018	1013
23	10.9	18.7	5.5	3.4	8.2	11.1	3.2	9.8	0.0	0.0	0.2		92	59	1020	1017
24	15.4	18.5	6.0	4.7	10.7	11.6	5.7	7.3	0.0	0.0	0.0		85	44	1020	1017
25	18.8	18.1	3.7	4.3	11.3	11.2	6.3	6.7	0.0	0.0	0.0		84	30	1017	1015
26	19.9	17.1	7.7	4.6	13.8	10.9	8.8	4.2	0.0	0.0	0.0		85	49	1016	1014
27	19.3	15.5	6.0	2.9	12.7	9.2	7.7	5.3	0.0	0.0	0.0		90	40	1020	1017
28	20.3	15.7	5.4	2.8	12.9	9.3	7.9	5.1	0.0	0.0	0.0		95	36	1024	1020
29	25.2	15.6	8.0	2.7	16.6	9.2	11.6	1.4	0.0	0.0	0.0		78	27	1021	1010
30	23.2	15.5	9.2	1.1	16.2	8.3	11.2	1.8	0.0	0.0	0.0		80	40	1010	998
Total							267.3	137.2	14.5	33.6	31.4		Extreme / Date	Extreme / Date	Extreme / Date	Extreme / Date
Avg	20.3	18.7	7.4	5.6	13.9	12.2	1981-2010 Normal			37.0	Normal					
Extreme	33.1		2.0				219.9	182.5	7.6	224.4	Cumulative		95	13	1027	994
Date	8		20							310.0	Cumulative No		28	6	5	20

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

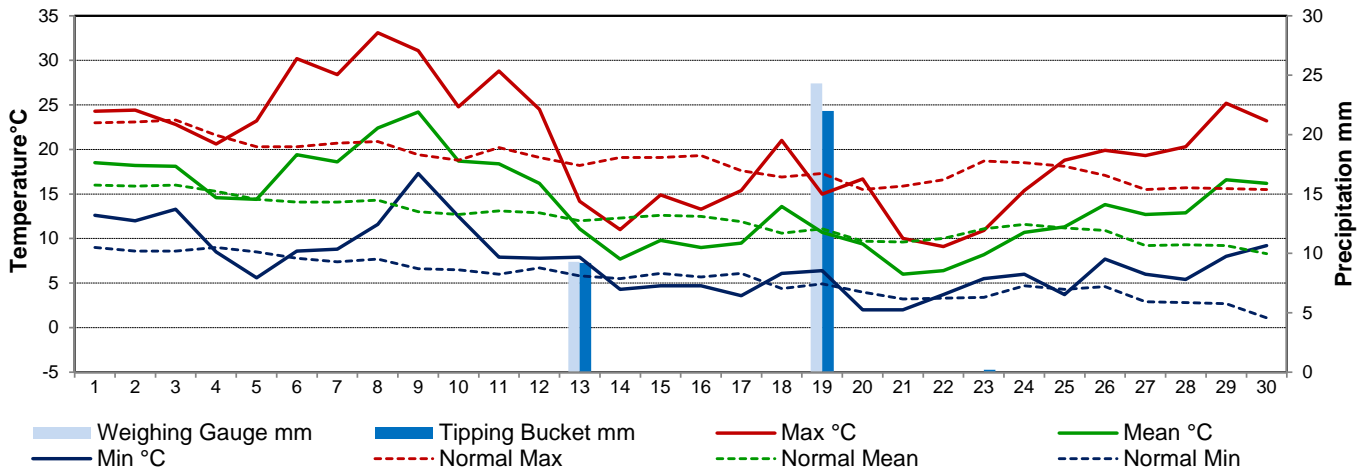
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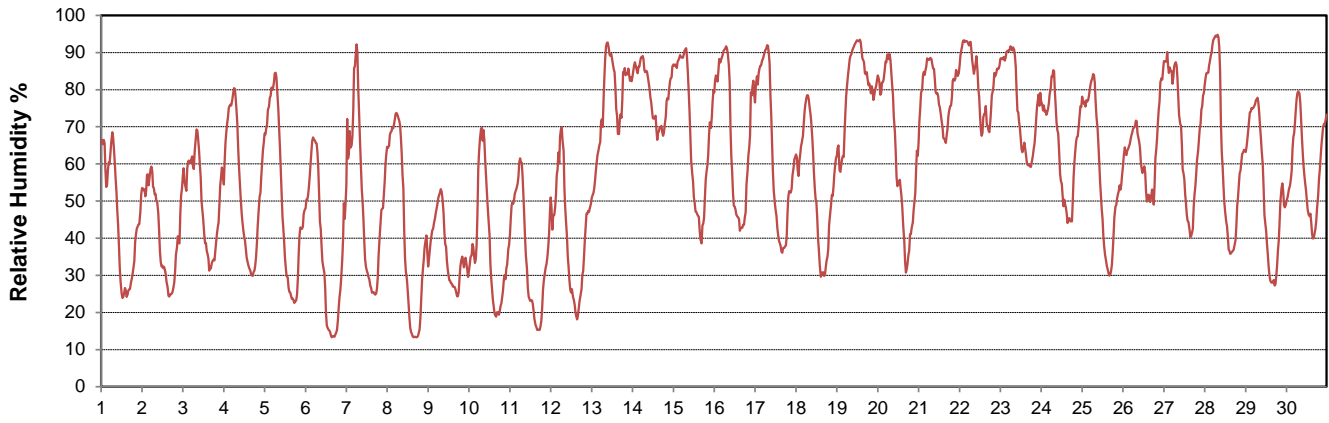
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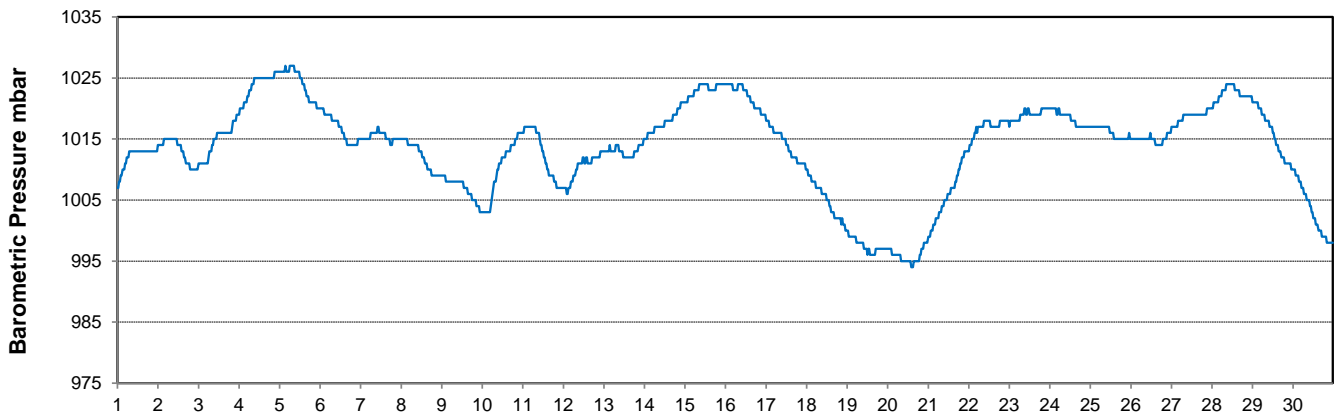
Temperature and Precipitation for September 2017



Relative Humidity for September 2017



Barometric Pressure Corrected to Sea Level for September 2017





SRC CLIMATE REFERENCE STATION DAILY DATA REPORT

SASKATOON STATION 4057180

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

Preliminary **SEPTEMBER 2017**

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	Possible	% Possible	Global
	km/h			°C	°C	°C	°C	°C	°C	°C	°C	%	hours	hours		MJ/m ²	MJ/m ²
1	49.8	NW	12:23	16.5	18.0	19.0	19.5	17.5	14.5	13.5	11.0	13	9.7	13.6	71.5	16.9	5.5
2	37.5	NW	10:47	16.0	16.0	17.0	18.0	17.5	14.5	13.5	11.0	12	9.4	13.5	69.6	14.5	5.1
3	45.2	NW	14:27	14.5	16.5	17.5	18.0	17.5	14.5	13.5	11.0	12	4.6	13.4	34.2	12.8	4.9
4	48.6	N	13:41	12.5	15.0	16.0	17.5	17.0	14.5	13.5	11.0	12	12.8	13.4	95.7	19.6	2.4
5	25.5	NW	16:24	11.0	13.0	14.5	16.0	17.0	14.5	13.5	11.0	12	12.8	13.3	96.2	17.8	2.4
6	31.0	SSW	13:37	14.5	14.0	15.0	16.5	16.5	14.5	13.5	11.0	12	12.5	13.3	94.3	18.8	2.1
7	35.1	SE	20:45	17.5	14.5	15.5	17.0	16.5	14.5	13.5	11.0	12	12.0	13.2	91.0	18.4	3.4
8	42.6	S	15:10	15.5	16.0	17.0	17.5	16.5	14.5	13.5	11.0	12	12.5	13.1	95.3	18.9	2.1
9	36.1	S	1:52	18.0	17.5	18.5	18.5	17.0	14.5	13.5	11.0	12	10.8	13.1	82.8	13.9	6.0
10	63.4	WNW	15:16	17.5	18.5	19.0	19.0	17.0	14.5	13.5	11.0	12	10.0	13.0	77.0	16.8	2.6
11	33.0	SW	15:31	13.0	14.5	16.0	17.5	17.0	14.5	13.5	11.0	12	11.8	12.9	91.3	16.3	4.2
12	44.1	N	14:04	18.5	14.5	15.5	17.0	17.0	14.5	13.5	11.0	12	11.7	12.9	91.1	16.7	2.4
13	29.7	ENE	8:45	9.0	15.5	16.5	17.0	16.5	14.5	13.5	11.0	12	0.0	12.8	0.0	2.8	2.3
14	29.4	N	12:04	7.0	10.5	12.0	14.0	16.0	14.5	13.5	11.5	13	0.3	12.7	2.4	6.4	4.9
15	33.5	NNE	14:35	7.0	9.5	11.0	12.5	15.0	14.5	13.5	11.5	12	7.5	12.7	59.3	13.7	3.7
16	18.0	ESE	12:47	7.0	9.5	10.5	12.0	14.5	14.0	13.5	11.5	12	3.1	12.6	24.6	9.3	5.6
17	31.1	ESE	23:31	6.5	8.0	9.5	11.5	14.0	14.0	13.0	11.5	12	9.6	12.5	76.7	14.6	3.7
18	40.1	SE	21:56	8.5	8.5	9.5	11.5	13.5	13.5	13.0	11.5	12	7.7	12.5	61.8	12.5	4.1
19	37.6	WNW	16:39	11.5	12.0	12.5	12.5	13.5	13.5	13.0	11.5	13	0.2	12.4	1.6	2.0	1.6
20	37.0	WSW	17:12	4.5	7.5	9.0	11.0	13.0	13.0	13.0	11.5	17	11.4	12.3	92.5	16.4	1.5
21	32.6	WSW	14:25	4.0	7.5	8.5	10.5	13.0	13.0	13.0	11.5	17	3.4	12.3	27.8	6.7	3.9
22	18.6	N	7:48	5.5	7.5	8.5	9.5	12.0	13.0	12.5	11.5	17	1.2	12.2	9.9	5.8	4.1
23	20.7	SW	14:55	7.0	8.5	9.0	9.5	12.0	12.5	12.5	11.5	17	0.5	12.1	4.1	6.5	4.9
24	17.5	SSW	15:39	8.5	8.5	9.5	10.0	12.0	12.5	12.5	11.5	17	8.9	12.1	73.9	13.2	3.9
25	35.4	SSW	12:52	7.5	7.5	8.5	10.0	12.0	12.5	12.5	11.5	16	10.7	12.0	89.3	14.8	1.7
26	30.0	W	16:18	9.0	9.5	10.0	10.5	12.0	12.0	12.5	11.5	16	3.9	11.9	32.7	8.2	4.4
27	20.1	W	12:40	8.5	8.5	9.5	10.5	12.0	12.0	12.0	11.5	16	4.5	11.9	38.0	8.9	4.8
28	34.4	SE	23:28	8.0	9.0	10.0	11.0	12.0	12.0	12.0	11.5	16	11.3	11.8	95.9	14.2	1.6
29	39.7	SSE	16:17	10.5	10.0	10.5	11.5	12.0	12.0	12.0	11.5	16	11.3	11.7	96.4	14.0	1.3
30	37.8	SSE	12:48	11.5	11.5	12.0	12.5	12.5	12.0	12.0	11.0	16	11.1	11.7	95.3	13.4	1.5
Total													237.2	378.5	62.7	384.8	102.6
Mean				10.9	11.9	12.9	14.0	14.7	13.6	13.1	11.3	13.7	1981-2010 Normal for Radiation				
Extreme	63.4	WNW	15:16	1971- 2000 Normal for Soil Temperatures									197.4	379.1	52.1	374.1	125.5
Date	10			10.5	11.0	12.5	13.2	12.4	11.7	9.9		No. of Bright Sunshine days = 29					

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

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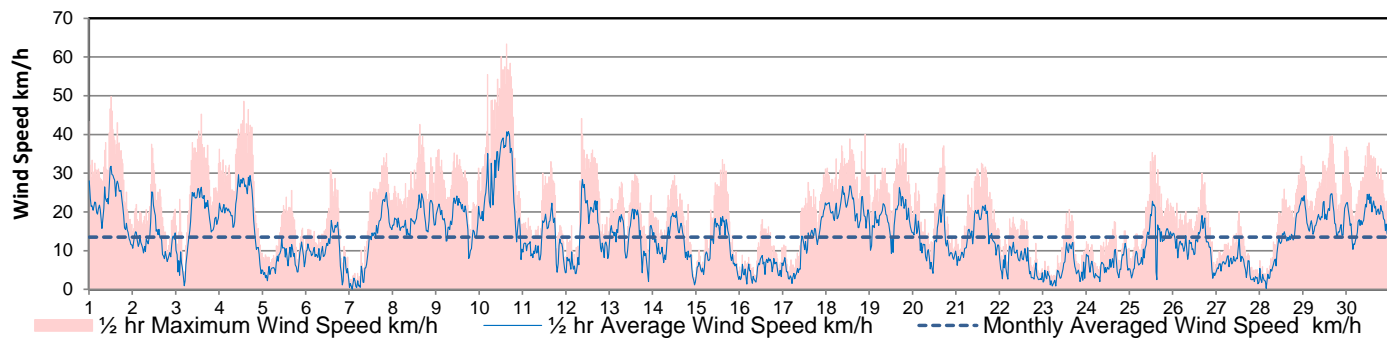


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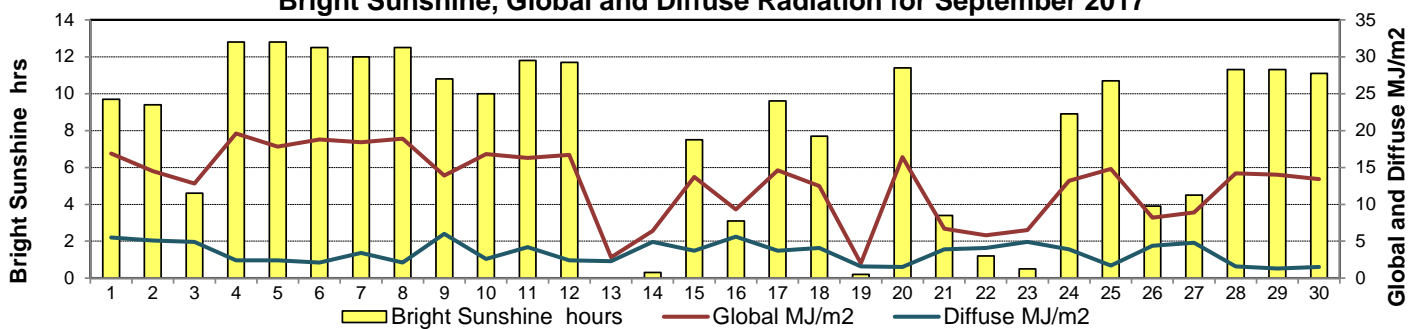
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Wind Speed for September 2017

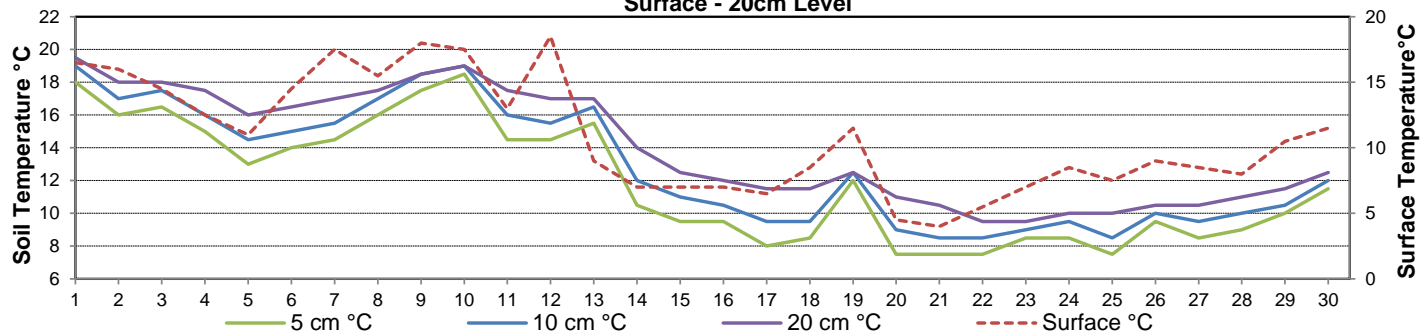


Bright Sunshine, Global and Diffuse Radiation for September 2017



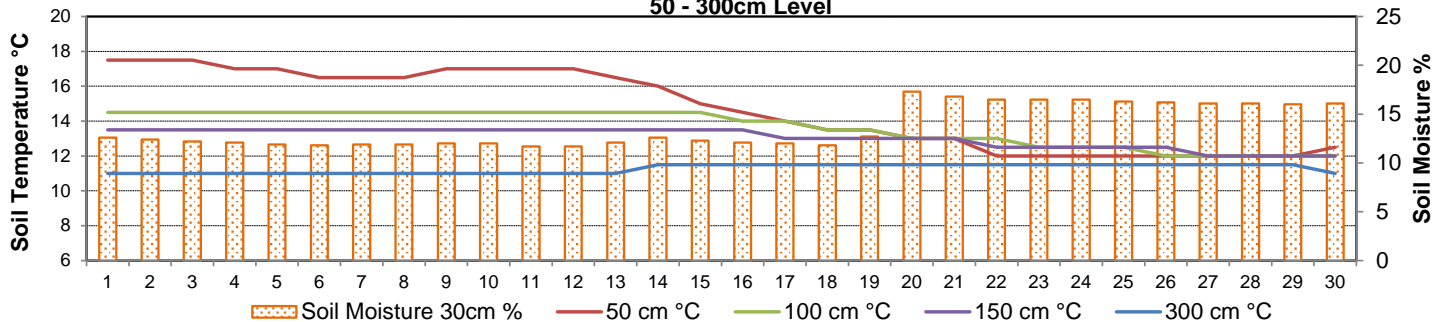
Soil Temperatures for September 2017

Surface - 20cm Level



Soil Temperatures for September 2017

50 - 300cm Level





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SASKATOON STATION 4057180

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

Preliminary **SEPTEMBER 2017**

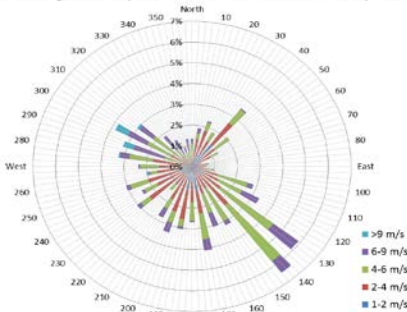
Extreme Records for September

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
36.1	22/1950	SF	35.6	04/1978	128.8	2006	SWT	128.4	2006	148 ^W	22/1967	89	1986	302.2	2011	30	1966*
-11.1	28,30/1908,'61	SE SF	-7.8	30/1974	0.6	1995	SA	0.8	1995,2012					114.6	1986	20	1984

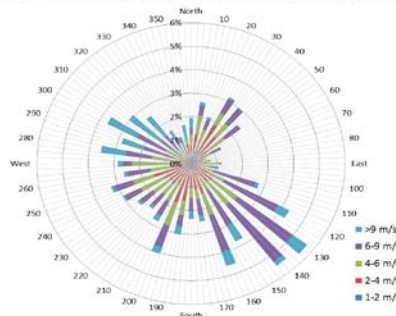
**1975 forward * more than one year

Notable Events for CRS Saskatoon - September						Saskatoon Area Stations			Glossary		
Element	Type	Day	New Record	Old Record	Year	SM	NWMP	c. 1892-1901	T	Trace of precipitation	
Temperature	Highest Minimum Daily	9	17.3	14.4	1967	SE	Eby	1901-1941	Normal	30 year average beginning with the decade	
	Highest Average Daily	9	24.2	21.9	2011	US	Univ. of Sask.	1915-1964	SOG	Depth of snow-on-the-ground in cm	
	Highest Extreme Minimum Temperature for the Month (aka it didn't cool off at night)	20	2.0	1.2	28/2009	S	Saskatoon	1941-1942	na	not available	
						SA	Saskatoon A	1942 -	Degree-days		
Precipitation	Highest Daily	19	24.3	11.6	1998	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	10 meter wind tower was moved 7.2 meters, 15° SE of previous location (25-9-2017 (14:30-15:00)) with all guy wires now inside compound Same RM Young wind speed and direction sensor installed on new tower (25-9-2017)		
						K	S'toon Kernen Farm	1993-2004			
						KCS	S'toon Kernen Farm CS	1996-			
						RCS	Environment Canada	2008-			
						SF	Sutherland Forestry	1943-1970			

10 minute Average Wind Speed and Direction Saskatoon September 2017



1/2 hr Maximum Wind Speed and Direction Saskatoon September 2017



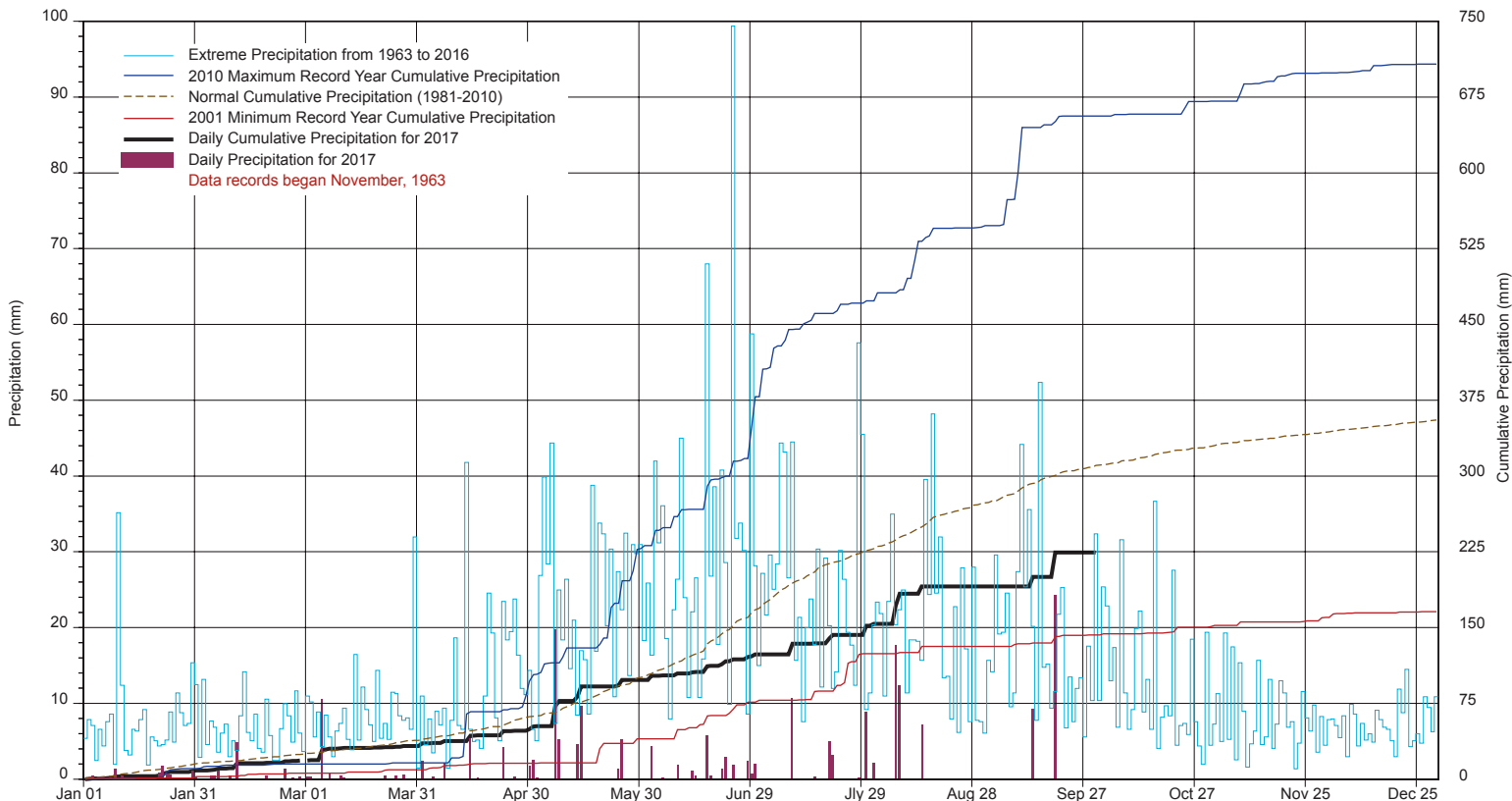
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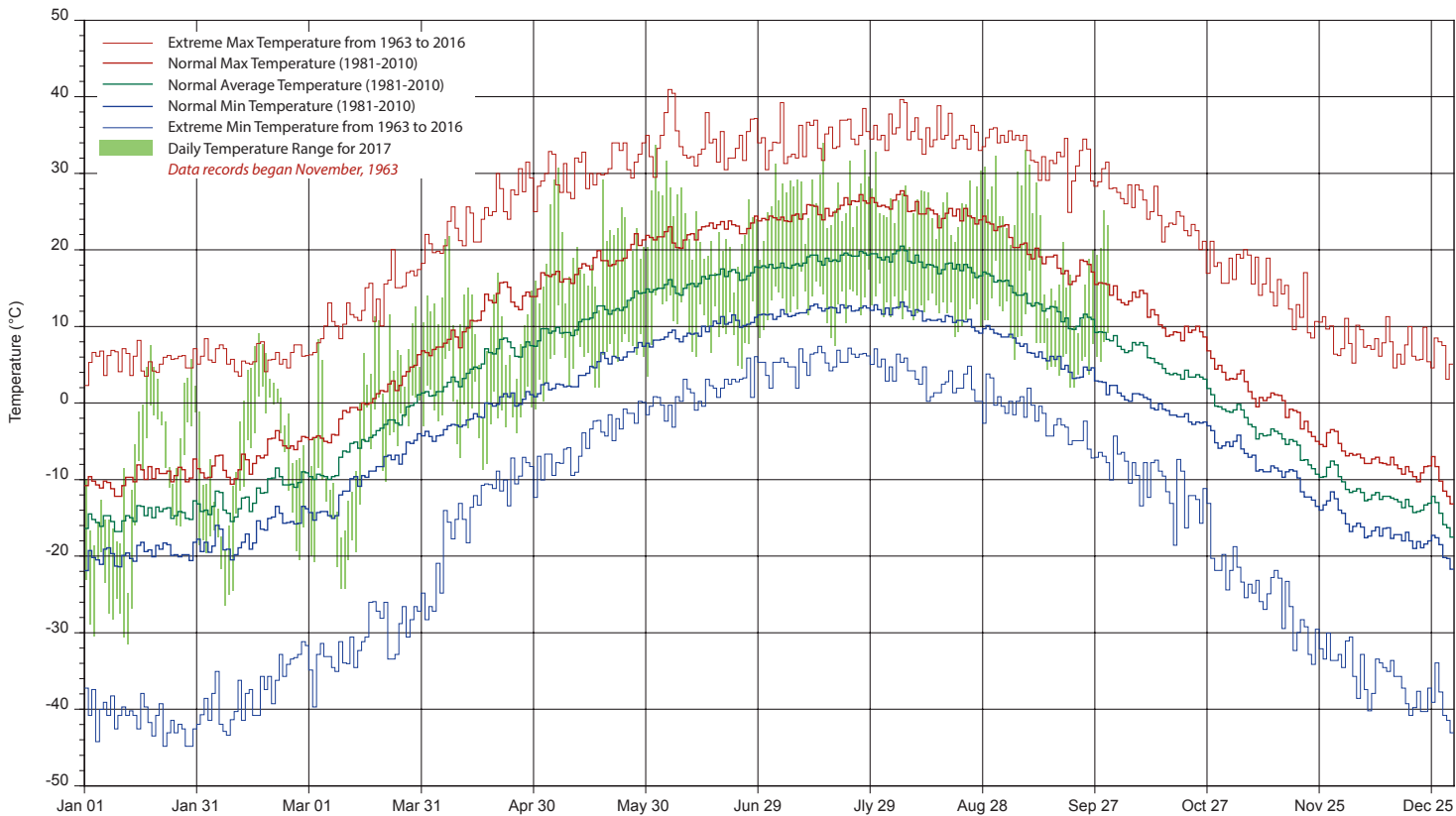
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2017 TEMPERATURES AND NORMALS



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