



SRC CLIMATE REFERENCE STATION DAILY DATA REPORT

SASKATOON STATION 4057180

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

Preliminary **SEPTEMBER 2018**

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	20.0	23.0	8.6	9.0	14.3	16.0	9.3	3.7	0.0	0.0	0.0		86	34	1012	1004
2	20.5	23.1	5.4	8.6	13.0	15.9	8.0	5.0	0.0	0.0	0.0		87	24	1015	1012
3	19.4	23.3	8.5	8.6	14.0	16.0	9.0	4.0	0.0	0.0	0.0		86	43	1015	1007
4	12.9	21.6	4.9	9.0	8.9	15.3	3.9	9.1	0.0	0.1	0.0		90	40	1024	1015
5	21.7	20.3	1.8	8.5	11.8	14.4	6.8	6.2	0.0	0.0	0.0		87	22	1026	1022
6	23.4	20.3	2.7	7.8	13.1	14.1	8.1	4.9	0.0	0.0	0.0		88	24	1026	1024
7	23.1	20.7	8.4	7.4	15.8	14.1	10.8	2.2	0.0	0.0	0.0		77	36	1025	1014
8	21.1	20.9	12.1	7.7	16.6	14.3	11.6	1.4	0.0	3.6	3.6	tstorm	89	59	1014	1003
9	20.1	19.4	11.1	6.6	15.6	13.0	10.6	2.4	0.0	0.0	0.0		89	38	1013	1005
10	15.5	18.8	4.1	6.5	9.8	12.7	4.8	8.2	0.0	0.6	1.0	tstorm	94	55	1013	1003
11	15.7	20.2	7.2	6.0	11.5	13.1	6.5	6.5	0.0	0.0	0.0		92	47	1013	1004
12	14.4	19.1	6.6	6.7	10.5	12.9	5.5	7.5	0.0	13.2	13.6	light rain	92	67	1013	1009
13	10.9	18.2	6.0	5.8	8.5	12.0	3.5	9.5	0.0	4.4	3.2	light rain	94	72	1018	1010
14	7.0	19.1	2.5	5.5	4.8	12.3	0.0	13.2	0.0	0.0	0.0		92	63	1025	1018
15	10.3	19.1	5.8	6.1	8.1	12.6	3.1	9.9	0.0	1.9	2.4	light rain	89	64	1024	1016
16	8.8	19.3	4.7	5.7	6.8	12.5	1.8	11.2	0.0	9.8	9.0	light rain	93	84	1017	1014
17	9.1	17.6	3.3	6.1	6.2	11.9	1.2	11.8	0.0	3.1	3.2	light rain	96	72	1019	1015
18	9.2	16.9	4.3	4.4	6.8	10.6	1.8	11.2	0.0	0.0	0.0		83	64	1020	1018
19	14.9	17.3	4.2	4.9	9.6	11.1	4.6	8.4	0.0	0.0	0.0		91	38	1021	1019
20	14.1	15.5	3.9	4.0	9.0	9.7	4.0	9.0	0.0	1.6	2.0	light rain	92	44	1022	1017
21	4.0	15.9	-0.2	3.2	1.9	9.6	0.0	16.1	0.0	4.0	2.8	rain/snow mix	97	87	1022	1020
22	2.0	16.6	-0.3	3.3	0.9	10.0	0.0	17.1	0.0	1.5	0.8	rain/snow mix	96	81	1022	1020
23	2.4	18.7	-0.4	3.4	1.0	11.1	0.0	17.0	0.0	0.8	1.2	rain/snow mix	96	87	1021	1012
24	10.7	18.5	1.0	4.7	5.9	11.6	0.9	12.1	0.0	0.0	0.0		96	65	1013	1011
25	13.4	18.1	2.7	4.3	8.1	11.2	3.1	9.9	0.0	0.0	0.2		93	30	1016	1013
26	16.3	17.1	3.6	4.6	10.0	10.9	5.0	8.0	0.0	0.0	0.0		78	36	1015	1009
27	6.9	15.5	-2.5	2.9	2.2	9.2	0.0	15.8	0.0	0.1	0.0		91	43	1024	1015
28	6.8	15.7	-2.8	2.8	2.0	9.3	0.0	16.0	0.0	0.0	0.0		84	35	1024	1019
29	5.3	15.6	-2.2	2.7	1.6	9.2	0.0	16.4	0.0	0.0	0.0		81	45	1026	1018
30	3.6	15.5	-5.1	1.1	-0.8	8.3	0.0	18.8	0.0	0.0	0.0		89	40	1028	1020
Total							123.9	292.5	0.0	44.7	43.0		Extreme / Date	Extreme / Date	Extreme / Date	Extreme / Date
Avg	12.8	18.7	3.7	5.6	8.3	12.2	1981-2010 Normal			37.0	Normal					
Extreme	23.4		-5.1				219.9	182.5	7.6	192.8	Cumulative		97	22	1028	1003
Date	6		30							310.0	Cumulative No		21	5	30	8

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

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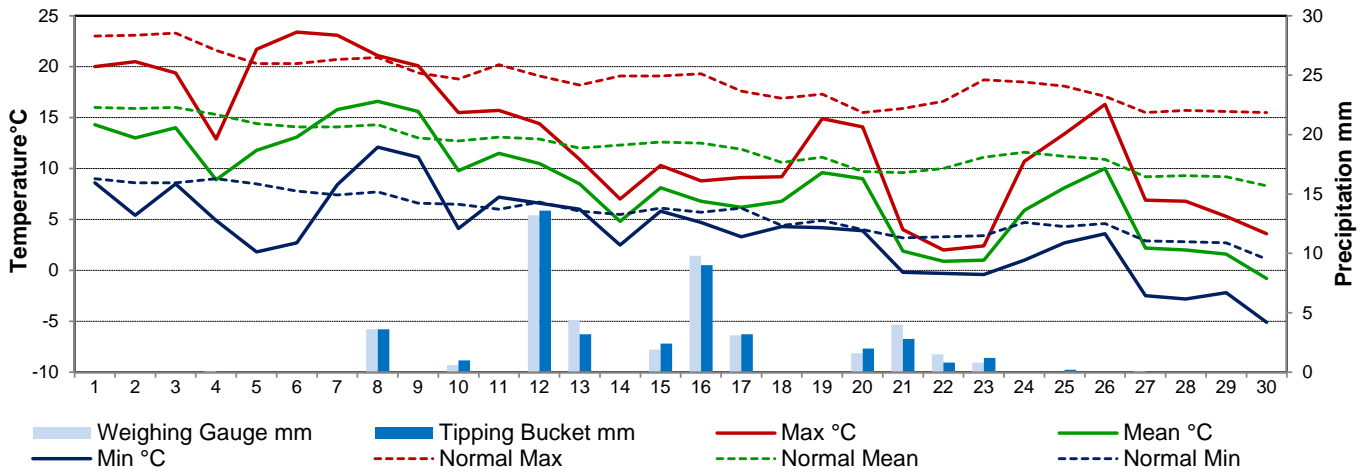


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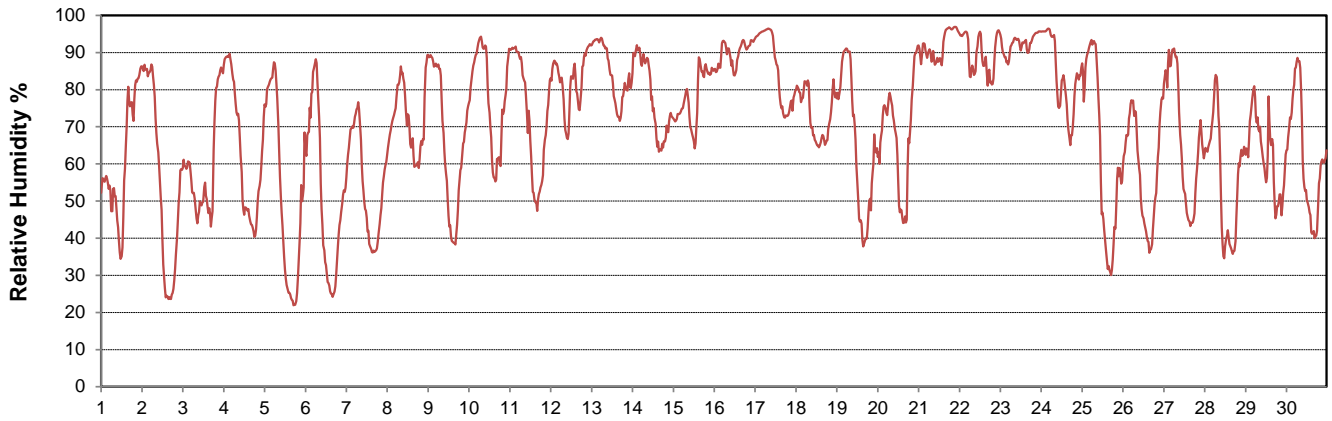
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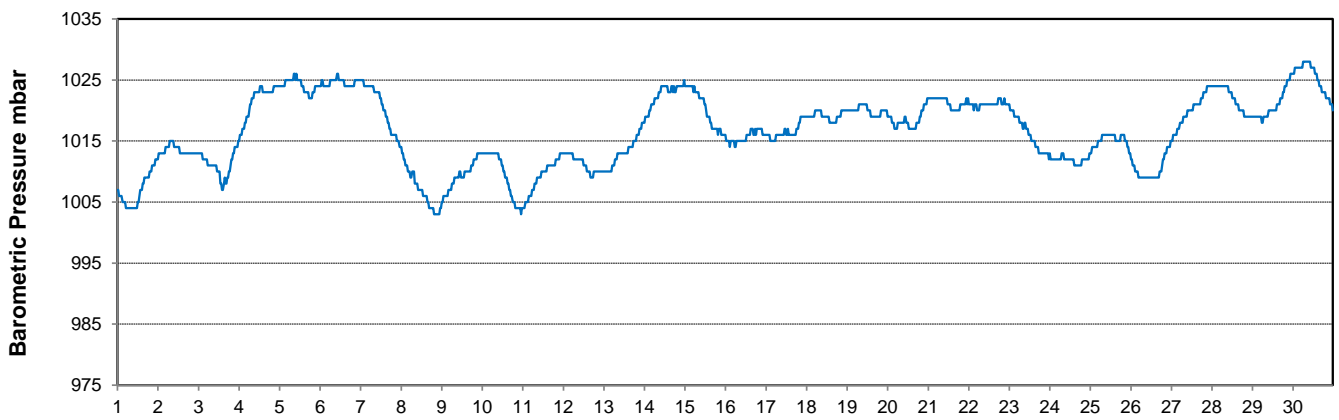
Temperature and Precipitation for September 2018



Relative Humidity for September 2018



Barometric Pressure Corrected to Sea Level for September 2018





SRC CLIMATE REFERENCE STATION DAILY DATA REPORT

SASKATOON STATION 4057180

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

Preliminary **SEPTEMBER 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	48.3	WNW	13:45	14.5	14.0	14.5	15.0	15.5	13.5	12.5	10.5	3.4	13.6	25.0	9.4	4.6
2	42.4	WSW	13:48	11.0	11.5	12.5	14.0	15.0	13.5	12.5	10.5	10.1	13.5	74.7	16.3	5.4
3	47.0	WNW	19:23	14.5	12.5	13.0	14.0	15.0	13.5	12.5	10.5	2.7	13.5	20.1	7.6	4.6
4	46.5	NW	13:45	7.5	12.0	13.0	14.0	14.5	13.5	12.5	10.5	9.4	13.4	70.2	17.3	3.3
5	33.1	W	13:49	8.5	9.0	10.5	12.5	14.5	13.5	12.5	10.5	12.8	13.3	96.0	19.6	2.1
6	37.0	E	17:35	10.5	10.5	11.5	13.0	14.0	13.0	12.5	10.5	12.2	13.3	92.0	18.4	2.9
7	46.5	SE	16:25	12.0	12.5	13.5	14.5	14.5	13.0	12.5	10.5	10.0	13.2	75.8	15.7	4.1
8	49.8	E	8:06	12.5	14.5	15.0	15.0	14.5	13.0	12.5	10.5	2.5	13.1	19.0	8.2	5.2
9	52.6	WNW	14:41	13.5	13.5	14.0	15.0	15.0	13.0	12.5	10.5	11.5	13.1	88.1	17.7	2.6
10	34.4	NW	23:40	7.0	11.0	12.5	14.0	14.5	13.0	12.5	10.5	1.7	13.0	13.1	8.3	5.7
11	38.7	WNW	14:50	10.5	12.0	13.0	13.5	14.5	13.0	12.5	10.5	5.7	12.9	44.1	13.4	5.1
12	33.7	SSE	21:50	11.0	11.0	12.0	13.0	14.0	13.0	12.5	10.5	0.6	12.9	4.7	4.6	3.3
13	24.9	WNW	16:35	8.0	11.0	11.5	12.5	14.0	13.0	12.0	10.5	0.0	12.8	0.0	4.6	3.6
14	27.3	N	5:48	3.0	8.5	9.5	11.5	13.5	13.0	12.0	10.5	0.1	12.7	0.8	5.8	4.5
15	42.2	E	12:44	7.5	8.5	9.0	10.5	13.0	12.5	12.0	10.5	0.4	12.7	3.2	4.5	3.4
16	40.9	ENE	10:07	6.5	9.0	9.5	10.0	12.5	12.5	12.0	10.5	0.0	12.6	0.0	2.9	2.3
17	25.8	NW	20:28	4.0	7.5	8.0	9.0	12.0	12.5	12.0	10.5	1.4	12.5	11.2	7.2	5.0
18	24.1	NW	15:12	6.0	8.0	8.5	9.5	11.5	12.0	12.0	10.5	0.9	12.5	7.2	6.6	4.9
19	31.0	WSW	13:08	6.5	7.5	8.0	9.0	11.5	12.0	12.0	10.5	6.0	12.4	48.4	12.6	4.4
20	31.0	NE	21:52	8.0	8.5	9.5	10.0	11.5	12.0	11.5	10.5	1.3	12.3	10.5	6.1	4.2
21	37.1	NE	17:01	1.0	7.5	8.5	9.5	11.5	11.5	11.5	10.5	0.0	12.3	0.0	3.1	2.5
22	37.5	E	16:41	0.5	4.5	5.5	7.0	11.0	11.5	11.5	10.5	0.0	12.2	0.0	3.3	2.6
23	33.6	SE	5:41	0.0	3.5	4.5	6.0	10.0	11.5	11.5	10.5	0.0	12.1	0.0	2.9	2.4
24	26.0	WSW	12:38	2.5	4.0	5.0	5.5	9.0	11.0	11.5	10.5	7.3	12.1	60.5	10.8	4.3
25	45.6	WNW	13:39	5.0	5.0	6.0	6.5	9.0	11.0	11.0	10.5	10.2	12.0	85.0	14.5	2.1
26	57.7	NW	15:41	10.0	6.5	7.0	7.5	9.5	10.5	11.0	10.5	8.8	11.9	73.8	10.9	5.4
27	39.3	NNW	15:39	2.5	5.0	6.0	7.5	9.5	10.5	11.0	10.5	7.3	11.9	61.5	11.2	4.2
28	33.6	WNW	11:50	0.0	3.0	4.5	6.0	9.5	10.5	11.0	10.5	8.7	11.8	73.7	12.3	3.4
29	38.2	NNW	16:49	0.0	2.5	3.5	5.0	8.5	10.5	10.5	10.5	3.4	11.7	29.0	7.1	4.7
30	26.4	NW	0:34	-2.5	2.0	3.0	4.5	8.0	10.0	10.5	10.5	7.6	11.7	65.1	10.3	3.1
Total												146.0	378.9	38.5	293.2	115.9
Mean				6.7	8.5	9.4	10.5	12.4	12.2	11.9	10.5	1981-2010 Normal for Radiation				
Extreme	57.7	NW	15:41	1971- 2000 Normal for Soil Temperatures								197.4	379.1	52.1	374.1	125.5
Date	26			10.5	11.0	12.5	13.2	12.4	11.7	9.9	No. of Bright Sunshine days = 25					

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

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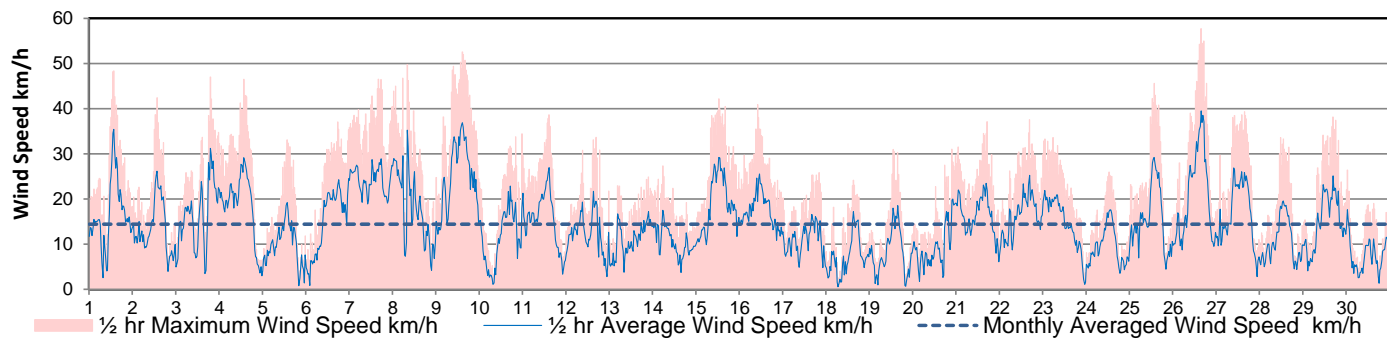


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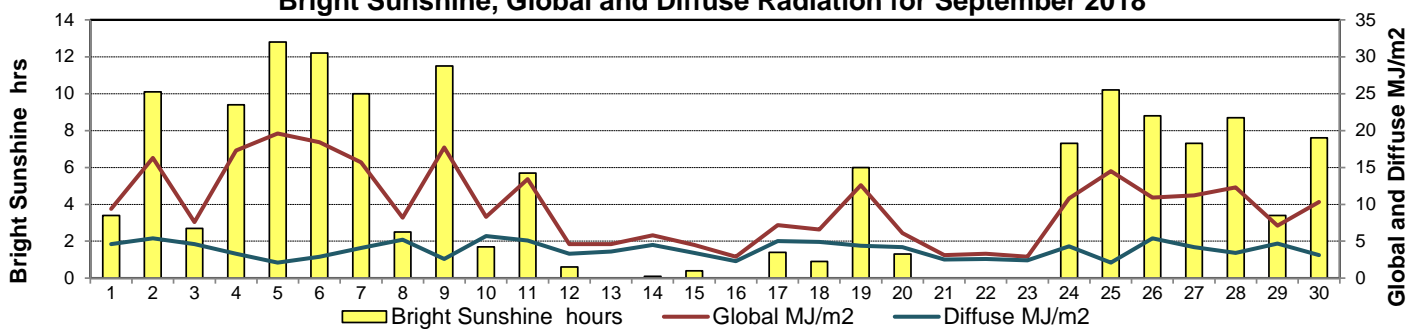
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Wind Speed for September 2018

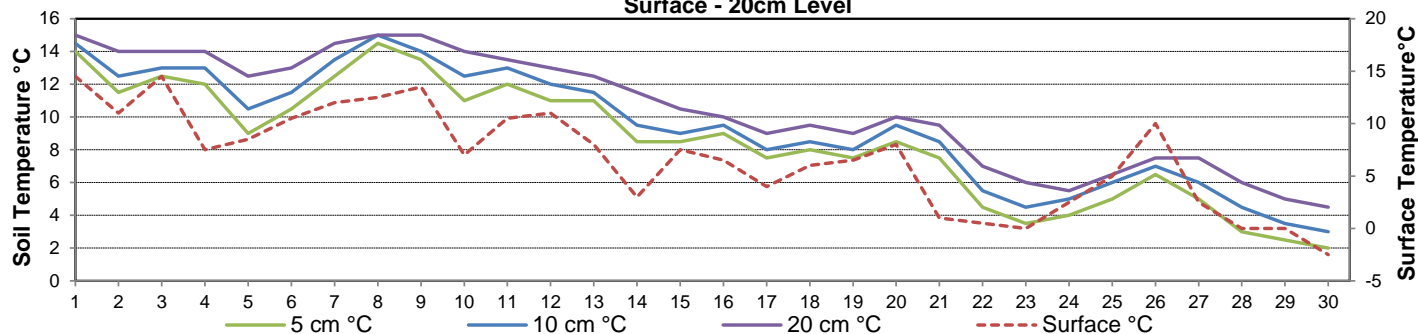


Bright Sunshine, Global and Diffuse Radiation for September 2018



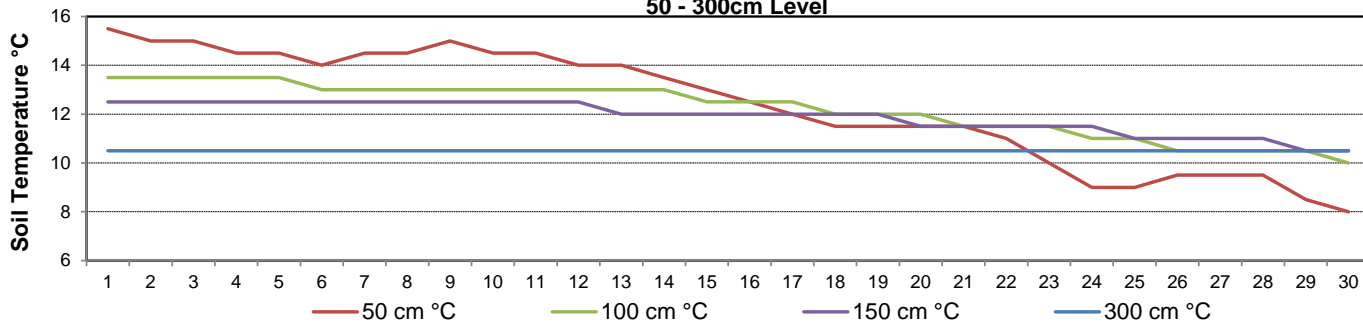
Soil Temperatures for September 2018

Surface - 20cm Level



Soil Temperatures for September 2018

50 - 300cm Level





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

Preliminary **SEPTEMBER 2018**

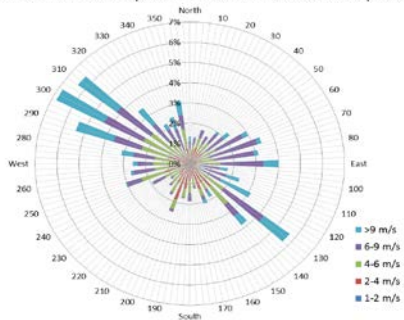
Extreme Records for September

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

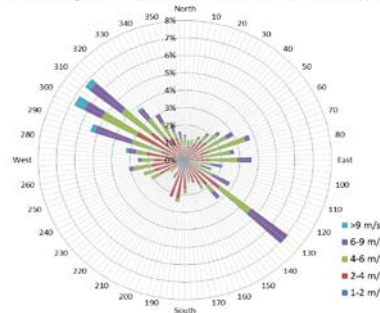
**1975 forward * more than one year

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	Lowest Maximum Daily	14	7	7.8	1973	SE	Eby	1901-1941	Normal	30 year average beginning with the decade
	Lowest Maximum Daily	21	4	5.6	1969	US	Univ. of Sask.	1915-1964	SOG	Depth of snow-on-the-ground in cm
	Lowest Maximum Daily	23	2.4	2.5	1985	S	Saskatoon	1941-1942	na	not available
	Lowest No. of days >=10°C		19	20	1965	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		
						K	S'toon Kernen Farm	1993-2004		
						KCS	S'toon Kernen Farm CS	1996-		
						RCS	Environment Canada	2008-		
						SF	Sutherland Forestry	1943-1970		
2018 Frost-Free season length is 133 days (May 10 to Sept 21) Normal frost-free season length is 124 days (May 18 to Sept 20)									Power disruption 15:00 Sept 25	

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



10 minute Average Wind Speed and Direction Saskatoon Sept 2018



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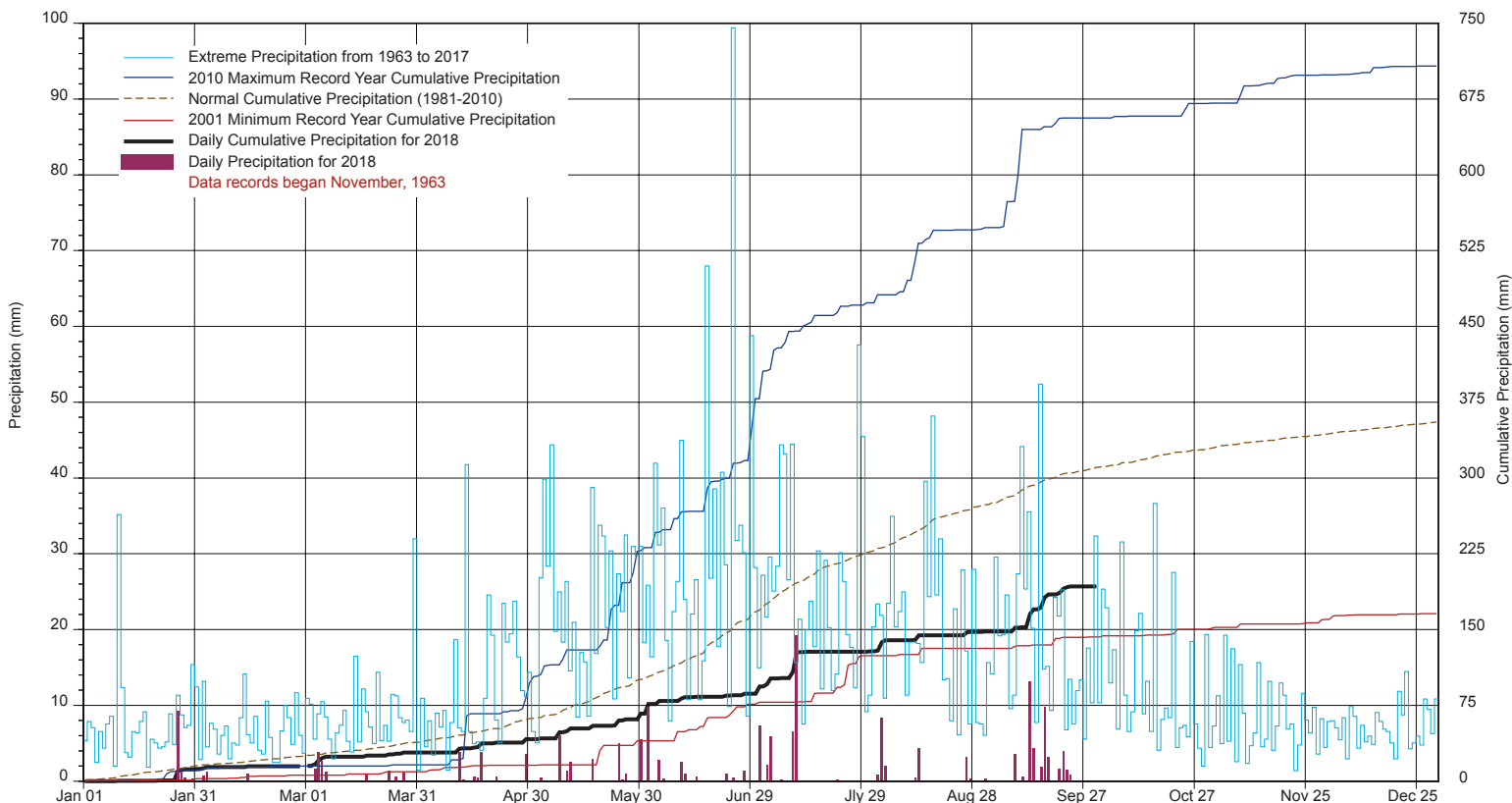


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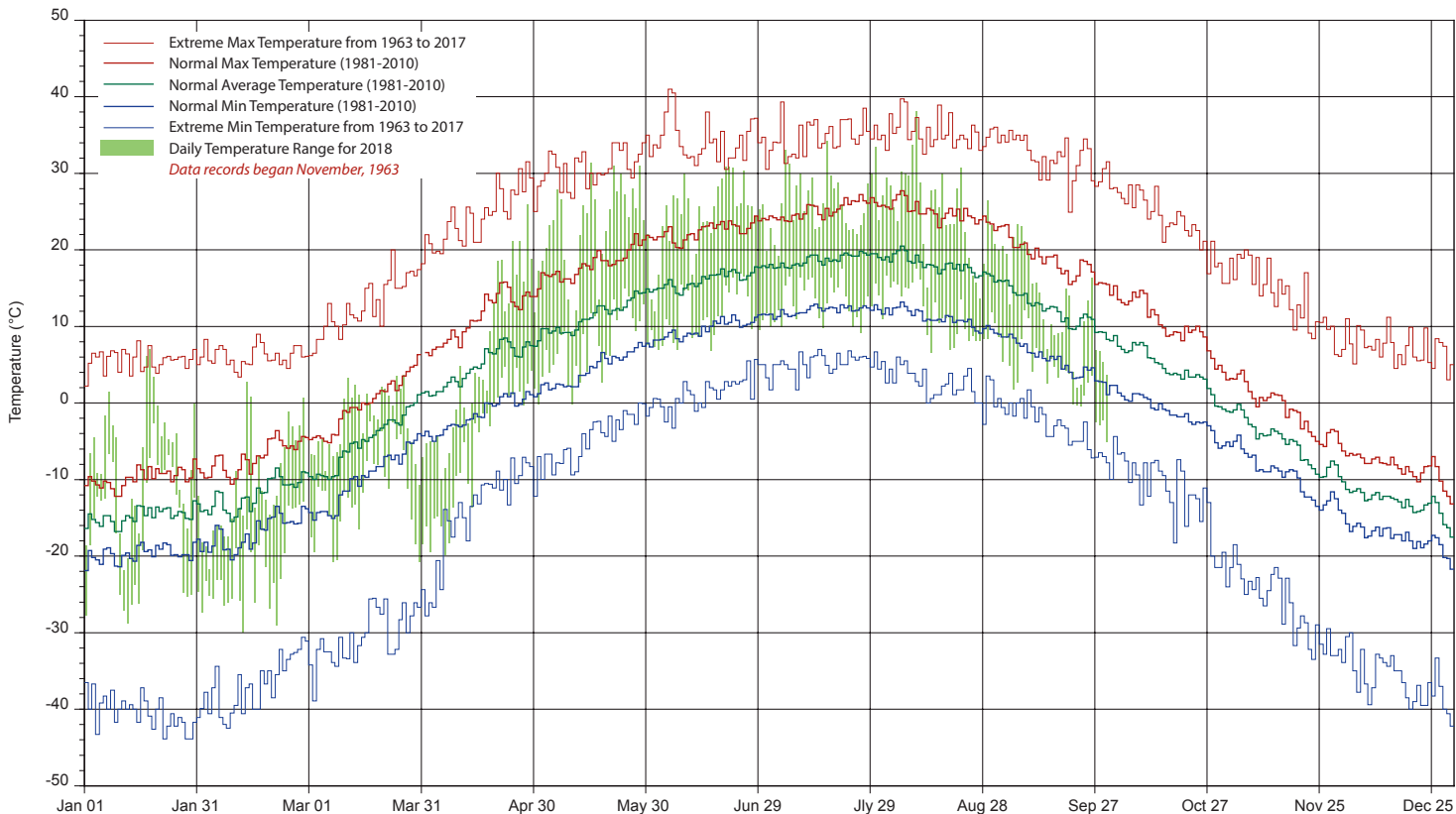
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2018 TEMPERATURES AND NORMALS



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