



SRC CLIMATE REFERENCE STATION DAILY DATA REPORT

SASKATOON STATION 4057180

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

Preliminary **SEPTEMBER 2016**

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	29.0	23.0	16.0	9.0	22.5	16.0	17.5	0.0	4.5	0.0	0.0		88	41	1012	1005
2	25.5	23.1	13.9	8.6	19.7	15.9	14.7	0.0	1.7	0.1	0.2		93	50	1006	1002
3	21.6	23.3	9.0	8.6	15.3	16.0	10.3	2.7	0.0	0.0	0.0		90	33	1010	1004
4	15.6	21.6	5.3	9.0	10.5	15.3	5.5	7.5	0.0	0.0	0.0		89	48	1016	1011
5	14.2	20.3	4.4	8.5	9.3	14.4	4.3	8.7	0.0	0.0	0.0		92	53	1016	1014
6	19.7	20.3	1.9	7.8	10.8	14.1	5.8	7.2	0.0	0.0	0.0		96	36	1014	1010
7	20.6	20.7	8.6	7.4	14.6	14.1	9.6	3.4	0.0	0.4	0.6		91	38	1010	1008
8	21.4	20.9	4.6	7.7	13.0	14.3	8.0	5.0	0.0	0.0	0.0		93	32	1011	1006
9	19.7	19.4	5.7	6.6	12.7	13.0	7.7	5.3	0.0	0.0	0.0		93	35	1017	1011
10	23.5	18.8	5.2	6.5	14.4	12.7	9.4	3.6	0.0	0.4	0.4		90	31	1016	1006
11	14.4	20.2	6.4	6.0	10.4	13.1	5.4	7.6	0.0	1.6	1.4		90	54	1017	1006
12	10.5	19.1	2.8	6.7	6.7	12.9	1.7	11.3	0.0	0.0	0.2		85	37	1024	1017
13	17.5	18.2	2.4	5.8	10.0	12.0	5.0	8.0	0.0	0.0	0.0		90	29	1023	1014
14	24.1	19.1	6.0	5.5	15.1	12.3	10.1	2.9	0.0	0.0	0.0		82	24	1014	1010
15	23.4	19.1	5.3	6.1	14.4	12.6	9.4	3.6	0.0	0.0	0.0		91	23	1016	1012
16	23.8	19.3	6.4	5.7	15.1	12.5	10.1	2.9	0.0	0.0	0.0		83	23	1016	1009
17	22.1	17.6	7.9	6.1	15.0	11.9	10.0	3.0	0.0	0.0	0.0		70	23	1015	997
18	17.6	16.9	9.9	4.4	13.8	10.6	8.8	4.2	0.0	3.2	3.0		93	63	1005	996
19	17.8	17.3	7.3	4.9	12.6	11.1	7.6	5.4	0.0	0.0	0.0		82	41	1014	1005
20	17.5	15.5	3.2	4.0	10.4	9.7	5.4	7.6	0.0	0.0	0.0		94	37	1021	1014
21	16.5	15.9	0.5	3.2	8.5	9.6	3.5	9.5	0.0	0.0	0.0		97	38	1023	1022
22	17.9	16.6	0.4	3.3	9.2	10.0	4.2	8.8	0.0	0.0	0.0		97	34	1024	1021
23	11.4	18.7	8.5	3.4	10.0	11.1	5.0	8.0	0.0	13.5	12.4		94	59	1022	1010
24	13.9	18.5	7.3	4.7	10.6	11.6	5.6	7.4	0.0	0.0	0.0		95	62	1016	1009
25	17.4	18.1	5.1	4.3	11.3	11.2	6.3	6.7	0.0	0.0	0.0		83	28	1020	1017
26	20.9	17.1	3.6	4.6	12.3	10.9	7.3	5.7	0.0	0.0	0.0		81	28	1021	1014
27	24.7	15.5	7.7	2.9	16.2	9.2	11.2	1.8	0.0	0.0	0.0		73	34	1020	1009
28	16.4	15.7	2.7	2.8	9.6	9.3	4.6	8.4	0.0	0.8	0.8		94	33	1028	1021
29	18.3	15.6	6.6	2.7	12.5	9.2	7.5	5.5	0.0	0.7	1.0		94	55	1024	1017
30	21.5	15.5	5.6	1.1	13.6	8.3	8.6	4.4	0.0	0.0	0.0		96	47	1016	1013
Total							230.1	166.1	6.2	20.7	20.0		Extreme / Date	Extreme / Date	Extreme / Date	Extreme / Date
Avg	19.3	18.7	6.0	5.6	12.7	12.2	1981-2010 Normal			37.0	Normal					
Extreme	29.0		0.4				219.9	182.5	7.6	296.7	Cumulative		97	23	1028	996
Date	1		22							310.0	Cumulative No		21	15	28	18

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

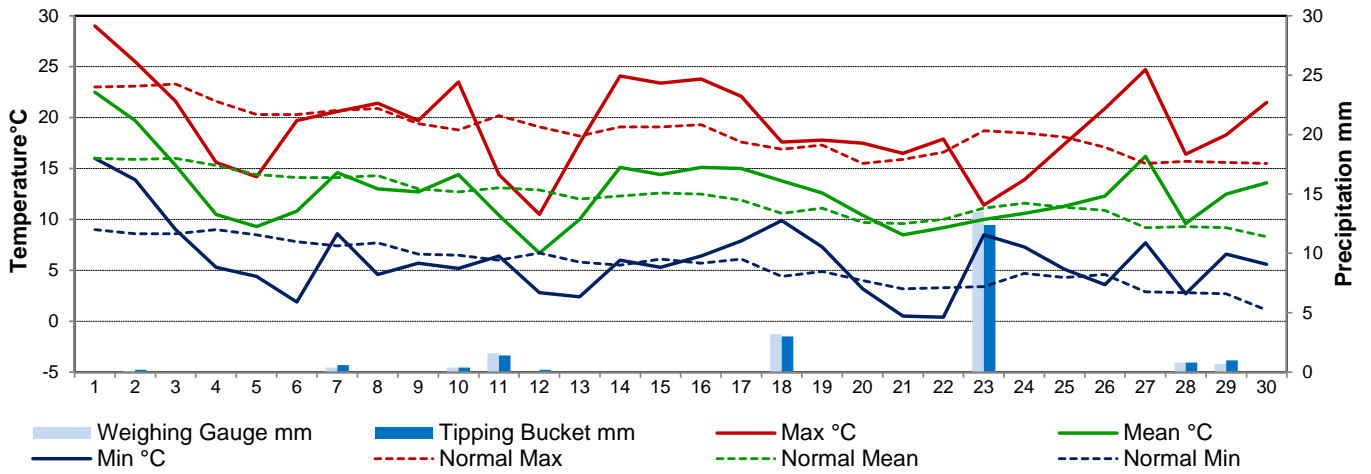
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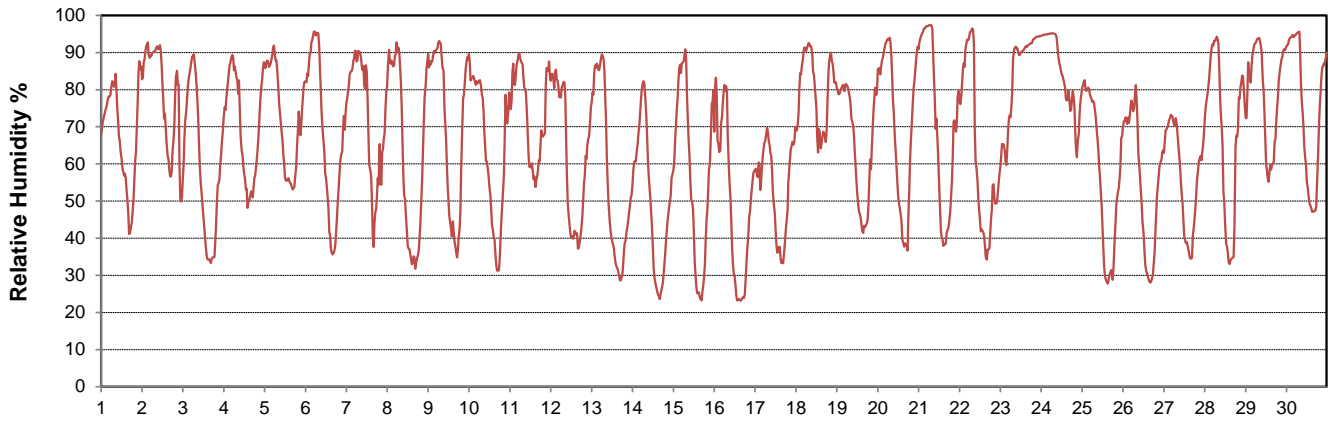
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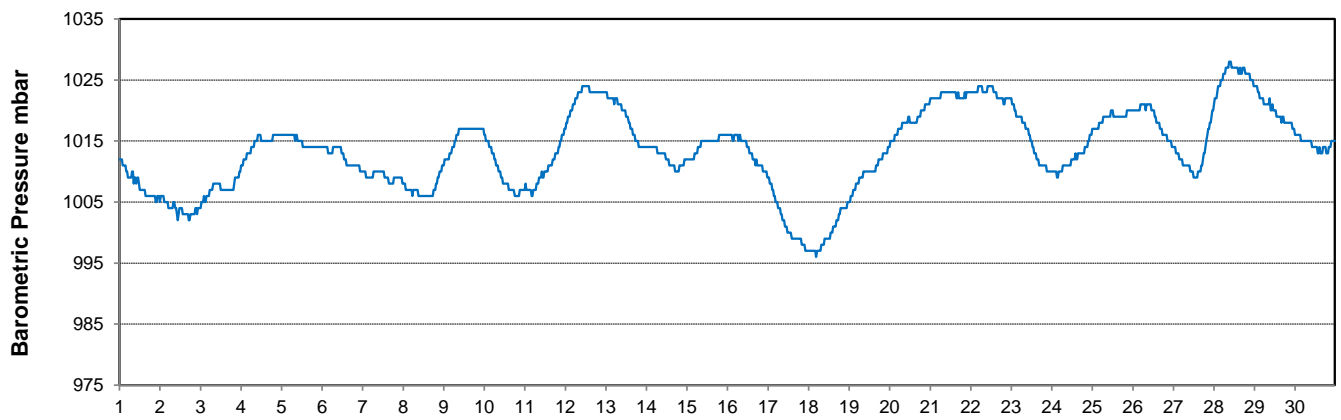
Temperature and Precipitation for September 2016



Relative Humidity for September 2016



Barometric Pressure Corrected to Sea Level for September 2016





SRC CLIMATE REFERENCE STATION DAILY DATA REPORT

SASKATOON STATION 4057180

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

Preliminary **SEPTEMBER 2016**

Day	Wind Gust			Soil Temperatures at 0900hrs								Soil Moisture 30 cm 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	39.5	SE	0:19	17.5	17.0	17.0	17.0	16.0	14.5	13.5	11.5		4.8	13.6	35.4	9.9	5.3
2	28.1	N	10:11	15.0	16.5	17.0	17.5	16.5	14.5	13.5	11.5		4.6	13.5	34.1	11.1	4.3
3	45.5	WNW	20:00	12.0	15.5	16.5	17.5	16.5	14.5	13.5	11.5		11.9	13.4	88.6	19.7	1.9
4	34.7	NW	1:06	10.0	14.5	15.5	16.5	16.5	14.5	13.5	11.5		2.7	13.4	20.2	11.2	6.5
5	19.3	NNE	10:28	8.5	13.0	14.0	15.0	16.0	14.5	13.5	11.5		0.3	13.3	2.3	8.8	6.6
6	34.2	SE	22:38	8.5	11.5	12.5	14.0	15.5	14.5	13.5	11.5		10.5	13.2	79.4	16.6	4.1
7	30.4	NNW	20:14	11.5	13.5	14.0	14.5	15.0	14.0	13.5	11.5		5.8	13.2	44.1	12.4	5.1
8	25.6	NNW	20:32	10.5	12.0	13.0	14.5	15.0	14.0	13.5	11.5		10.4	13.1	79.4	15.5	5.4
9	37.2	WNW	16:00	9.5	12.0	13.0	14.5	15.0	14.0	13.5	11.5		8.6	13.0	66.0	15.8	3.7
10	48.5	NW	20:59	11.0	12.0	13.0	14.0	15.0	14.0	13.5	11.5		6.5	13.0	50.1	12.1	5.6
11	42.5	N	23:06	10.0	13.0	14.0	14.5	14.5	14.0	13.5	11.5		2.1	12.9	16.3	8.2	4.7
12	41.4	NNE	13:38	3.5	10.5	12.0	13.0	14.5	13.5	13.5	11.5		4.6	12.8	35.9	12.0	5.6
13	43.7	SSW	0:16	6.5	9.0	10.5	12.0	14.0	13.5	13.0	11.5		12.2	12.8	95.5	18.1	2.1
14	33.1	SSW	13:12	10.0	9.5	10.5	12.0	13.5	13.5	13.0	11.5		12.2	12.7	96.1	17.5	1.3
15	40.9	NNE	16:12	12.0	10.5	11.5	13.0	13.5	13.5	13.0	11.5		12.0	12.6	95.0	16.8	1.7
16	28.6	SSE	14:38	12.0	10.5	11.5	13.0	13.5	13.0	13.0	11.5		12.0	12.6	95.5	16.8	1.6
17	32.6	SW	12:50	10.5	12.0	12.5	13.5	13.5	13.0	13.0	11.5		2.8	12.5	22.4	8.0	5.3
18	55.9	WNW	13:48	13.0	13.5	14.0	14.0	13.5	13.0	13.0	11.5		2.1	12.4	16.9	7.7	4.6
19	45.3	WNW	14:48	10.0	10.5	12.0	13.0	14.0	13.0	13.0	11.5		11.5	12.4	93.0	15.8	1.6
20	29.8	N	16:46	7.5	8.5	10.0	12.0	13.5	13.0	12.5	11.5		9.7	12.3	78.9	14.0	2.8
21	16.7	SSE	18:03	7.5	8.0	9.5	11.0	13.0	13.0	12.5	11.5		9.1	12.2	74.3	11.2	4.7
22	32.9	SE	12:18	6.0	7.5	9.0	11.0	12.5	13.0	12.5	11.5		9.7	12.2	79.7	13.1	3.5
23	39.7	SE	12:03	8.5	10.5	11.0	11.5	12.5	12.5	12.5	11.5		0.0	12.1	0.0	1.7	1.4
24	31.8	NW	15:16	10.5	10.5	11.0	11.0	12.0	12.5	12.5	11.5		1.0	12.0	8.3	3.6	2.8
25	47.7	WNW	13:26	7.0	8.5	9.5	11.0	12.0	12.5	12.5	11.5		10.5	12.0	87.7	14.2	2.7
26	20.5	WNW	13:32	6.5	7.0	8.5	10.0	12.0	12.5	12.5	11.5		11.5	11.9	96.6	14.6	1.1
27	48.4	WNW	16:59	11.0	9.0	10.0	10.5	12.0	12.0	12.5	11.5		11.1	11.8	93.8	14.3	1.3
28	25.4	NNW	0:07	6.0	9.0	10.0	11.5	12.0	12.0	12.0	11.5		4.9	11.8	41.6	8.4	3.3
29	29.6	NNE	17:31	8.0	9.5	10.5	11.0	12.0	12.0	12.0	11.5		5.0	11.7	42.7	9.8	4.1
30	20.4	NE	0:03	11.0	10.0	10.5	11.5	12.0	12.0	12.0	11.5		10.1	11.6	86.8	12.6	1.6
Total													220.2	377.98	58.3	371.5	106.3
Mean				9.7	11.2	12.1	13.2	13.9	13.3	13.0	11.5		1981-2010 Normal for Radiation				
Extreme	55.9	WNW	13:48	1971- 2000 Normal for Soil Temperatures									197.4	379.1	52.1	374.1	125.5
Date	18				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

Soil moisture instrument malfunctioning, replacement has ordered

SRC proudly recognizes the following CRS supporters:

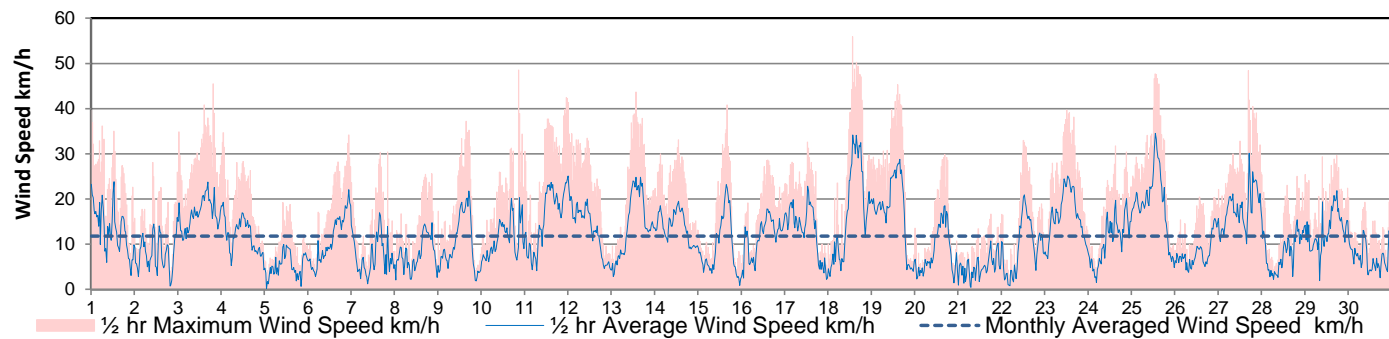


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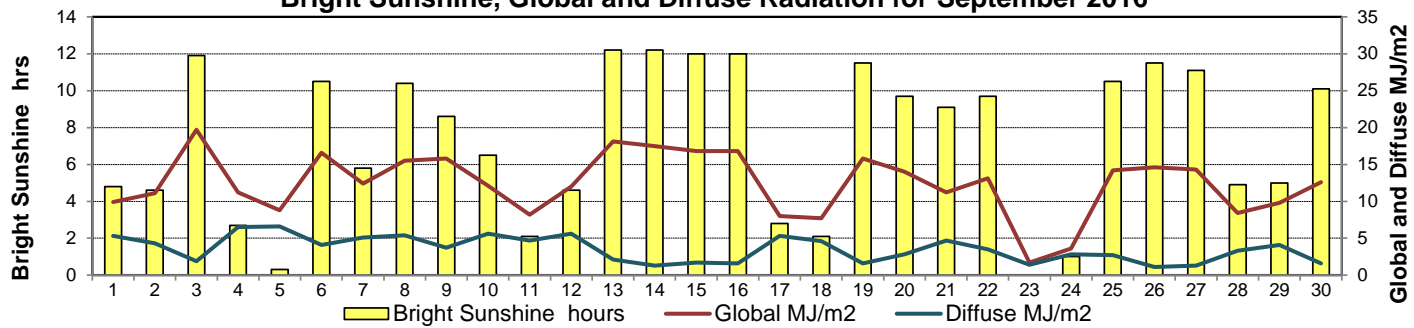
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Wind Speed for September 2016

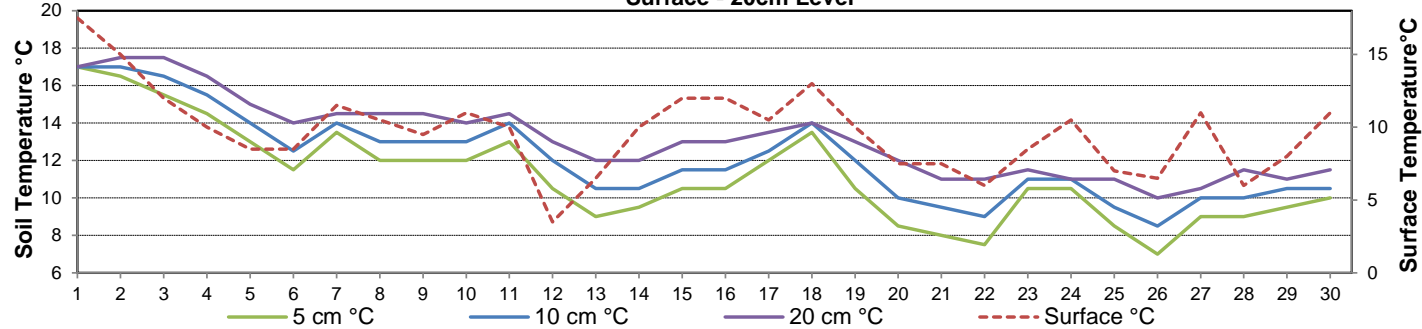


Bright Sunshine, Global and Diffuse Radiation for September 2016



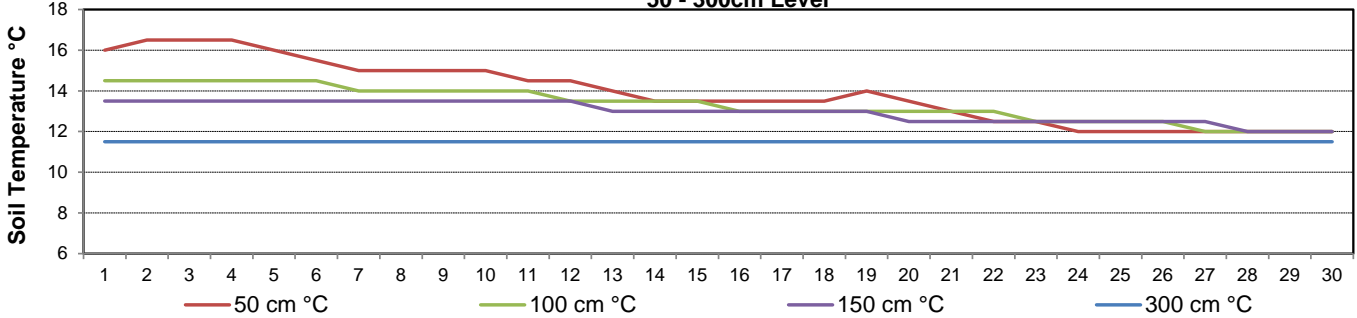
Soil Temperatures for September 2016

Surface - 20cm Level



Soil Temperatures for September 2016

50 - 300cm Level





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SASKATOON STATION 4057180

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

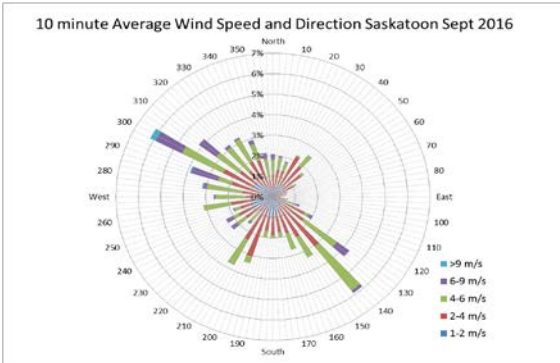
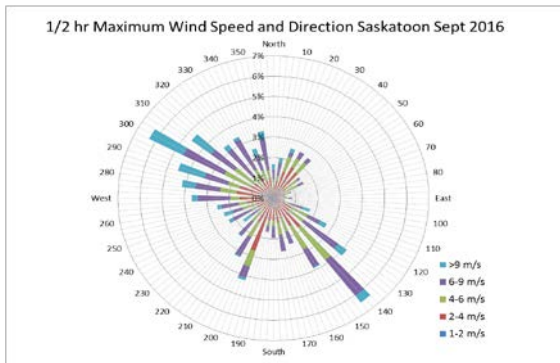
Preliminary **SEPTEMBER 2016**

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	Station	Location	Period	Symbol	Description
Precipitation	Total Daily	23	13.5	6.4	1969	SM	NWMP	c. 1892-1901	T	Trace of precipitation
						SE	Eby	1901-1941	Normal	30 year average beginning with the decade
						US	Univ. of Sask.	1915-1964	SOG	Depth of snow-on-the-ground in cm
						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		
						K	S'toon Kernen Farm	1993-2004		
						KCS	S'toon Kernen Farm CS	1996-		
						RCS	Environment Canada	2008-		
						SF	Sutherland Forestry	1943-1970		



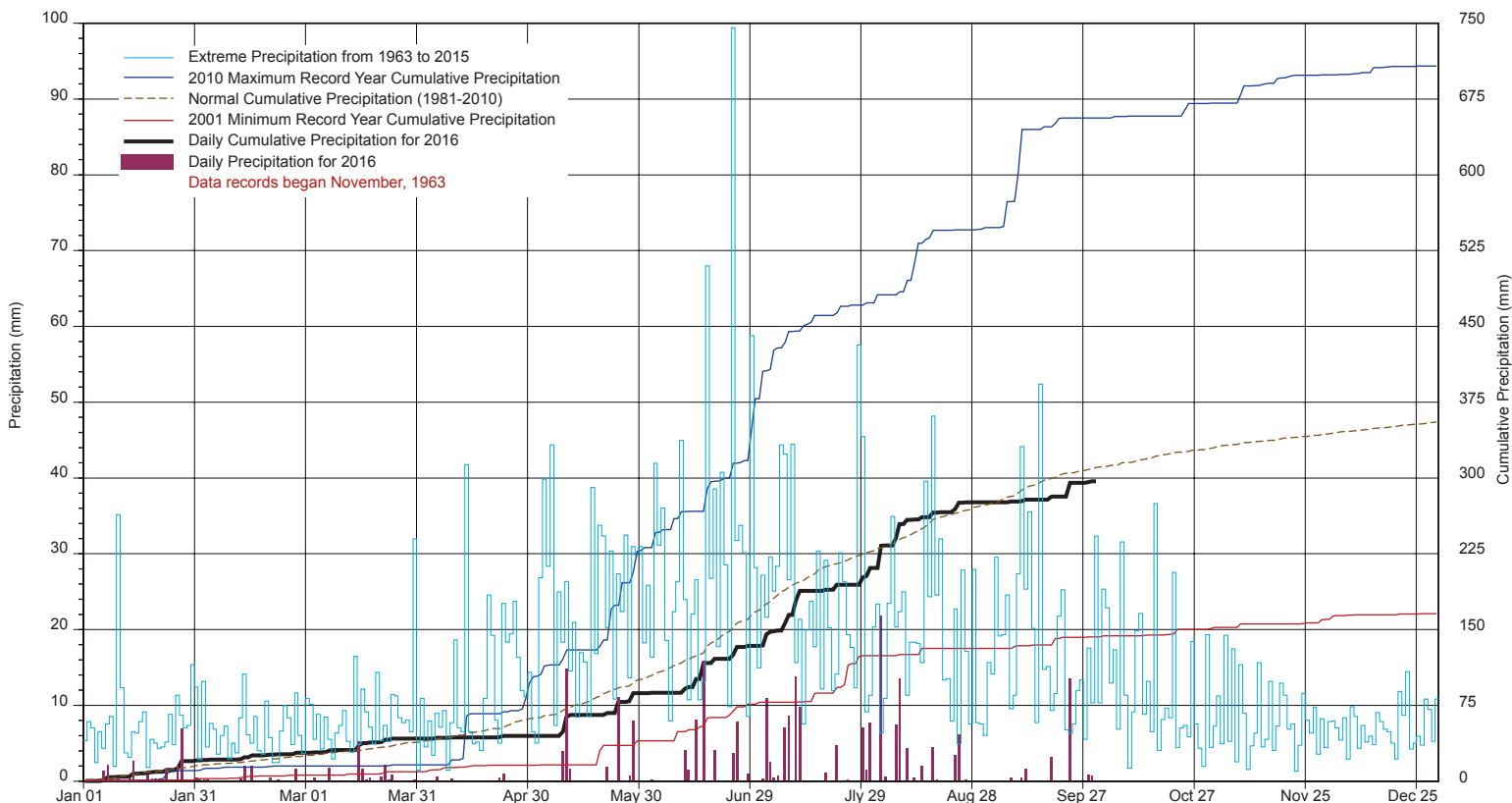
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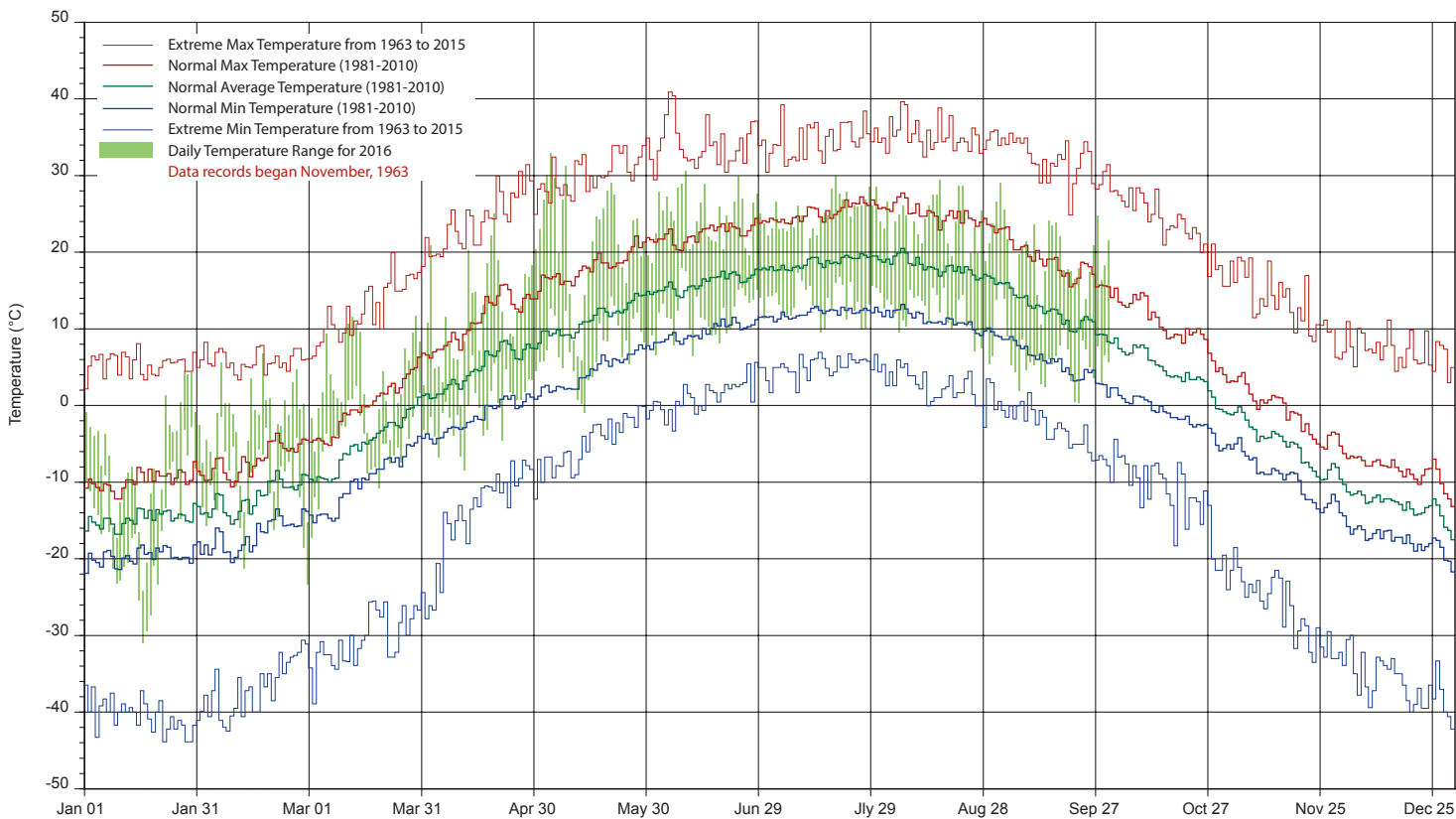
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2016 TEMPERATURES AND NORMALS



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