



SRC CLIMATE REFERENCE STATION DAILY DATA REPORT

SASKATOON STATION 4057180

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

Preliminary

JULY

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	24.9	23.9	10.8	11.5	17.9	17.7	12.9	0.1	0.0	0.0	0.2		95	40	1015	1012
2	25.7	24.4	13.4	11.6	19.6	18.1	14.6	0.0	1.6	0.0	0.2		84	45	1016	1013
3	31.3	24.2	15.3	10.9	23.3	17.6	18.3	0.0	5.3	0.0	0.0		82	33	1012	1004
4	26.4	23.9	14.4	11.3	20.4	17.7	15.4	0.0	2.4	0.0	0.0		87	26	1016	1009
5	28.6	24.3	13.6	12.2	21.1	18.3	16.1	0.0	3.1	0.0	0.0		73	20	1018	1013
6	27.4	23.8	11.7	11.6	19.6	17.7	14.6	0.0	1.6	0.0	0.0		81	28	1022	1018
7	29.0	23.7	11.8	11.3	20.4	17.6	15.4	0.0	2.4	0.0	0.0		90	25	1023	1017
8	28.3	24.5	14.0	11.4	21.2	18.0	16.2	0.0	3.2	0.0	0.0		87	37	1017	1013
9	29.2	24.7	12.3	11.7	20.8	18.2	15.8	0.0	2.8	0.0	0.0		89	28	1015	1011
10	28.9	24.0	17.2	11.8	23.1	17.9	18.1	0.0	5.1	10.6	12.6	light rain	88	42	1011	1005
11	20.7	24.7	14.5	11.8	17.6	18.3	12.6	0.4	0.0	0.0	0.0		94	62	1017	1005
12	24.2	25.9	11.5	12.2	17.9	19.1	12.9	0.1	0.0	0.0	0.0		91	40	1020	1017
13	29.2	25.8	13.9	12.7	21.6	19.3	16.6	0.0	3.6	0.0	0.0		79	38	1018	1010
14	26.1	25.7	15.9	12.9	21.0	19.3	16.0	0.0	3.0	0.0	0.0		86	45	1021	1010
15	29.8	24.6	15.3	12.4	22.6	18.5	17.6	0.0	4.6	0.0	0.0		84	34	1023	1012
16	33.9	23.9	14.2	12.0	24.1	18.0	19.1	0.0	6.1	0.3	0.8	t-storm	71	16	1012	1002
17	22.8	25.4	10.4	12.3	16.6	18.9	11.6	1.4	0.0	0.0	0.0	smoke	79	16	1014	1002
18	23.2	24.4	8.5	12.5	15.9	18.5	10.9	2.1	0.0	0.0	0.0		91	38	1019	1013
19	25.2	24.9	7.5	12.4	16.4	18.7	11.4	1.6	0.0	0.0	0.0		95	36	1015	1012
20	28.8	25.3	12.9	11.8	20.9	18.5	15.9	0.0	2.9	4.9	5.8	smoke t-storm	81	31	1014	1010
21	23.7	25.8	14.5	12.8	19.1	19.3	14.1	0.0	1.1	3.2	4.6	light rain	91	69	1011	1008
22	24.7	26.8	10.4	12.4	17.6	19.6	12.6	0.4	0.0	0.0	0.0		94	46	1016	1011
23	31.6	25.9	14.8	12.7	23.2	19.3	18.2	0.0	5.2	0.0	0.0		87	27	1015	1003
24	22.9	26.4	14.5	12.0	18.7	19.2	13.7	0.0	0.7	0.0	0.0		86	33	1007	1000
25	25.7	26.3	14.1	12.1	19.9	19.2	14.9	0.0	1.9	0.1	0.2	light rain	91	41	1017	1006
26	28.6	27.2	11.4	12.4	20.0	19.8	15.0	0.0	2.0	0.0	0.0		92	28	1020	1017
27	33.0	26.4	13.8	12.7	23.4	19.6	18.4	0.0	5.4	0.0	0.0		85	20	1017	1011
28	29.5	26.1	17.4	12.4	23.5	19.3	18.5	0.0	5.5	0.2	0.6		87	23	1016	1010
29	28.0	26.8	12.8	12.1	20.4	19.5	15.4	0.0	2.4	0.0	0.0		86	34	1018	1016
30	32.7	26.2	13.9	12.8	23.3	19.5	18.3	0.0	5.3	8.8	9.2	t-storm	87	33	1018	1010
31	24.8	25.7	15.6	12.2	20.2	19.0	15.2	0.0	2.2	0.0	0.0		91	32	1023	1015
Total							476.3	6.1	79.4	28.1	34.2		Extreme / Date	Extreme / Date	Extreme / Date	Extreme / Date
Avg	27.4	25.2	13.3	12.1	20.4	18.7	1981-2010 Normal			59.0	Normal					
Extreme Date	33.9		7.5				424.0	30.7	51.7	151.6	Cumulative		95	16	1023	1000
Date	16		19							226.5	Cumulative Normal		1	16	7	24

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

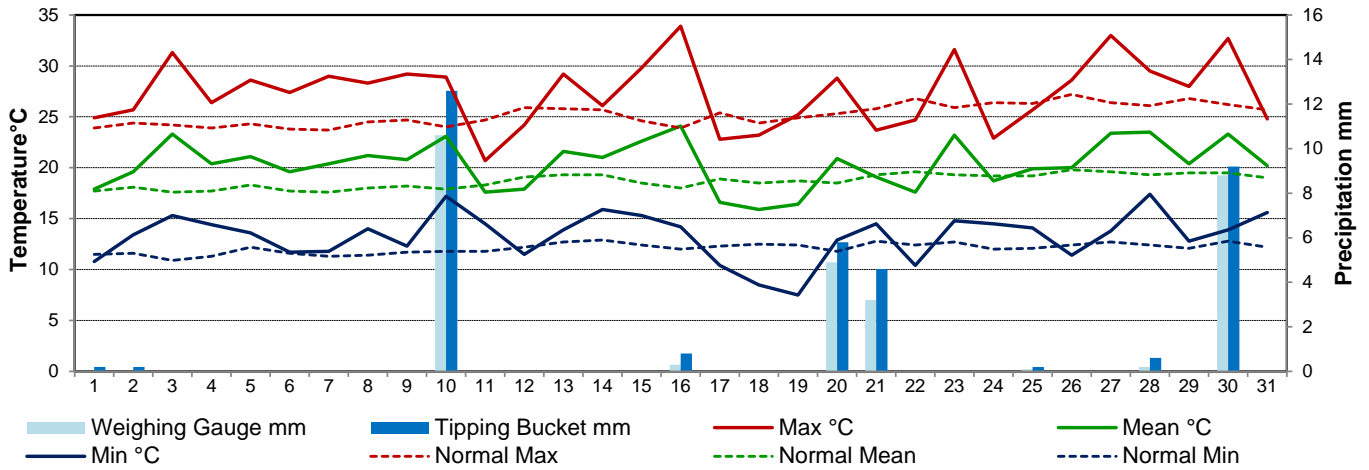
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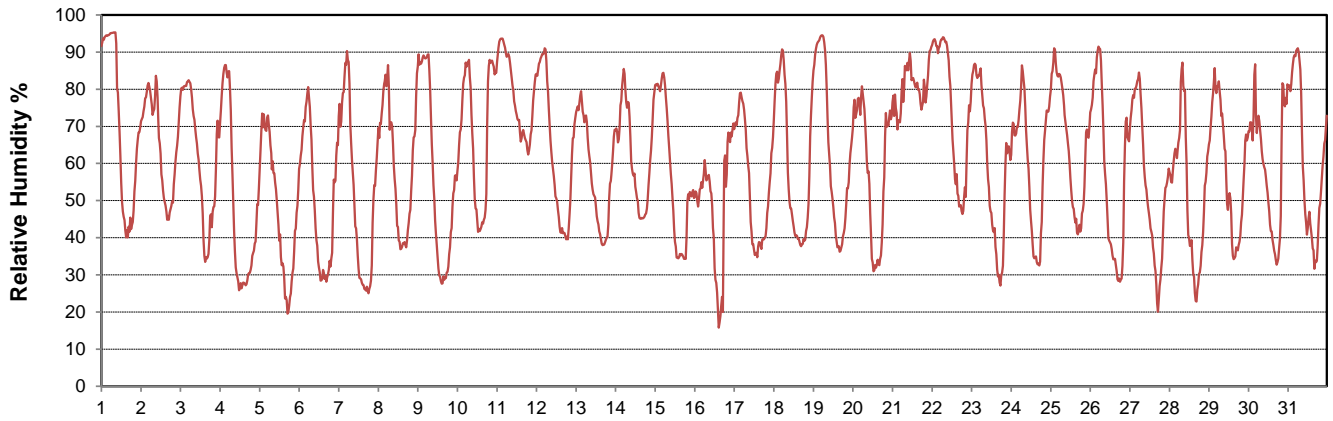
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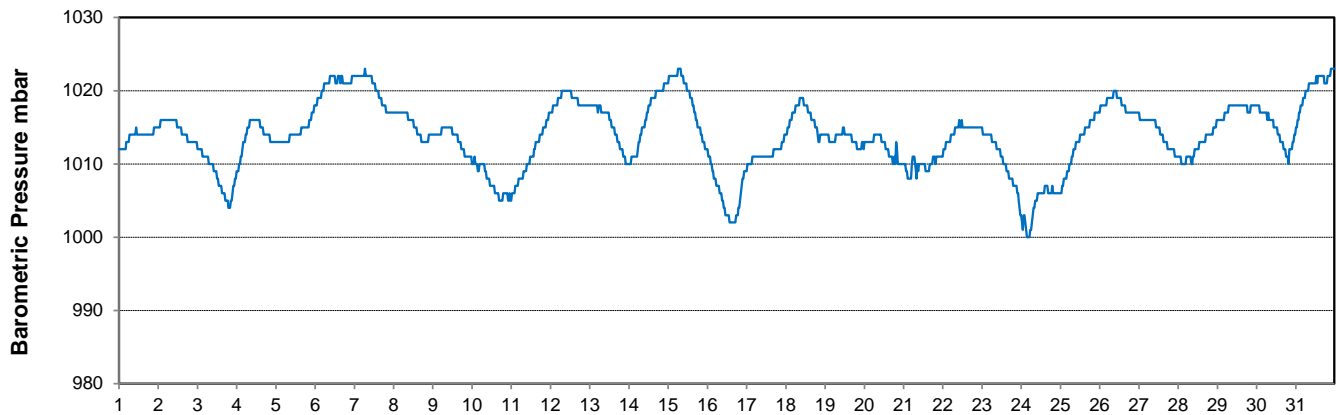
Temperature and Precipitation for July 2017



Relative Humidity for July 2017



Barometric Pressure Corrected to Sea Level for July 2017





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SASKATOON STATION 4057180

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

Preliminary

JULY 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	27.8	SE	23:22	15.5	16.0	16.0	16.0	14.5	11.5	10.0	7.5	14	11.6	16.7	69.6	26.5	7.0
2	36.3	ESE	15:04	15.5	17.0	18.0	17.5	15.0	11.5	10.0	7.5	14	10.5	16.6	63.1	22.7	4.8
3	38.7	SE	18:10	20.0	18.0	18.5	18.0	15.5	11.5	10.0	7.5	14	15.6	16.6	93.9	28.5	3.0
4	33.4	NW	11:35	20.0	19.5	20.5	19.5	16.0	11.5	10.0	7.5	14	15.7	16.6	94.6	29.3	2.7
5	47.6	NW	18:14	22.5	19.0	20.0	19.5	17.0	12.0	10.5	7.5	14	15.7	16.6	94.7	28.2	3.7
6	26.8	NW	16:44	20.0	18.5	19.5	19.5	17.0	12.0	10.5	8.0	14	12.5	16.6	75.5	24.5	6.2
7	36.5	W	13:07	21.5	19.0	19.5	19.5	17.5	12.5	10.5	8.0	14	15.5	16.5	93.8	29.0	2.8
8	30.8	E	14:11	20.5	20.0	20.5	20.5	17.5	12.5	10.5	8.0	14	8.5	16.5	51.5	19.7	9.1
9	23.9	NNE	0:50	19.5	19.5	20.5	20.5	17.5	13.0	11.0	8.0	14	12.6	16.5	76.5	25.6	5.5
10	39.7	E	13:55	21.0	21.0	22.0	21.0	18.0	13.0	11.0	8.0	14	7.9	16.4	48.1	20.7	5.8
11	34.0	E	14:37	17.5	19.5	20.5	20.5	18.0	13.0	11.0	8.0	15	0.1	16.4	0.6	7.5	5.7
12	35.3	SSW	16:59	18.5	16.5	17.5	18.0	17.5	13.0	11.5	8.0	14	12.8	16.4	78.2	25.0	5.1
13	39.5	SE	13:47	20.0	18.0	18.5	19.0	17.0	13.5	11.5	8.5	14	15.0	16.3	91.9	27.3	3.9
14	52.6	NNW	12:13	18.5	19.5	20.5	20.5	17.5	13.5	11.5	8.5	14	14.5	16.3	89.0	25.8	6.1
15	38.7	S	16:16	22.5	19.5	20.0	20.0	18.0	13.5	11.5	8.5	14	13.1	16.3	80.6	27.1	4.1
16	64.2	NNW	18:04	23.5	22.0	22.5	21.5	18.0	13.5	11.5	8.5	14	9.9	16.2	61.0	23.9	4.4
17	55.9	WNW	13:26	15.5	18.5	20.0	21.0	18.5	13.5	12.0	8.5	13	10.6	16.2	65.5	24.0	6.3
18	33.9	WSW	17:31	15.0	17.0	18.0	19.0	18.0	14.0	12.0	8.5	13	14.1	16.1	87.4	26.2	5.4
19	27.3	NW	13:06	16.0	17.5	18.5	19.5	18.0	14.0	12.0	9.0	13	13.0	16.1	80.7	24.9	6.3
20	49.0	SE	22:56	19.5	18.5	19.5	19.5	18.0	14.0	12.0	9.0	13	9.8	16.1	61.0	20.4	7.6
21	50.2	SSE	0:09	16.0	18.5	19.5	20.0	18.0	14.0	12.0	9.0	14	1.7	16.0	10.6	7.2	5.0
22	23.5	NW	18:25	14.5	16.0	16.5	18.0	17.5	14.0	12.0	9.0	14	9.0	16.0	56.4	21.4	7.6
23	34.1	ESE	23:13	19.5	18.0	19.0	19.0	17.5	14.0	12.0	9.0	14	9.7	15.9	60.9	21.7	7.7
24	67.8	W	18:54	16.5	20.0	21.0	20.5	17.5	14.0	12.5	9.0	14	9.3	15.9	58.6	23.6	4.0
25	51.0	WSW	0:00	17.5	18.5	19.0	19.5	18.0	14.0	12.5	9.0	13	11.2	15.8	70.8	22.5	6.7
26	26.6	WNW	17:23	20.0	17.5	18.5	19.0	18.0	14.0	12.5	9.5	13	13.8	15.8	87.5	24.4	3.5
27	35.1	SE	15:18	21.5	19.0	20.0	20.0	18.0	14.0	12.5	9.5	13	14.8	15.7	94.1	25.9	3.5
28	35.6	N	14:27	19.0	21.0	22.0	21.5	18.5	14.0	12.5	9.5	13	11.4	15.7	72.8	22.7	3.5
29	20.0	ESE	20:06	18.0	19.5	20.5	21.0	18.5	14.0	12.5	9.5	13	7.9	15.6	50.6	16.4	6.5
30	53.8	N	20:23	23.5	20.0	20.5	20.5	18.5	14.5	12.5	9.5	13	12.8	15.6	82.2	24.2	3.7
31	45.1	WNW	15:10	19.5	20.0	21.0	21.5	19.0	14.5	12.5	9.5	14	13.1	15.5	84.4	20.3	7.2
Total													353.7	501.4	70.5	717.1	164.4
Mean				19.0	18.8	19.6	19.7	17.5	13.3	11.5	8.5	14	1981-2010 Normal for Radiation				
Extreme	67.8	W	18:54	1971- 2000 Normal for Soil Temperatures									298.8	501.80	59.5	650.6	213.5
Date	24			17.5	18.0	18.9	16.7	13.1	10.9	7.5			No. of Bright Sunshine days =		31		

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

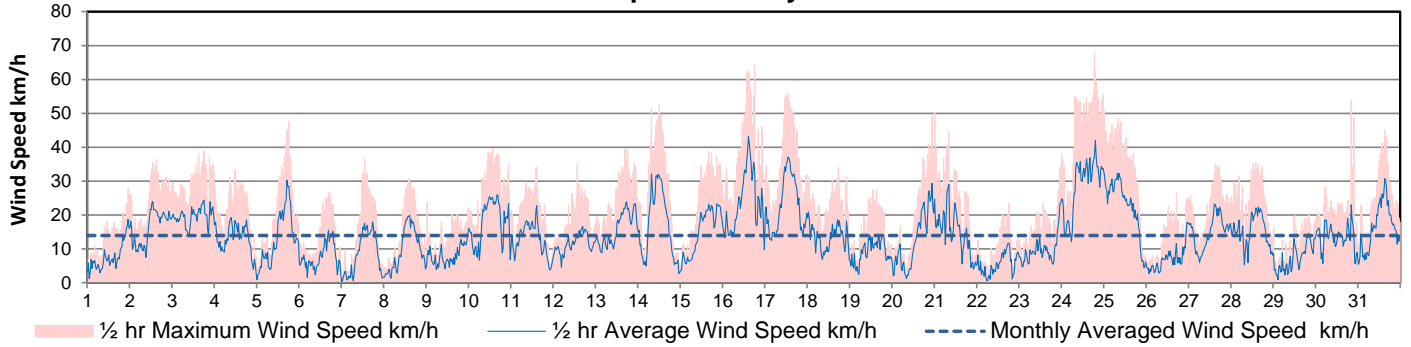
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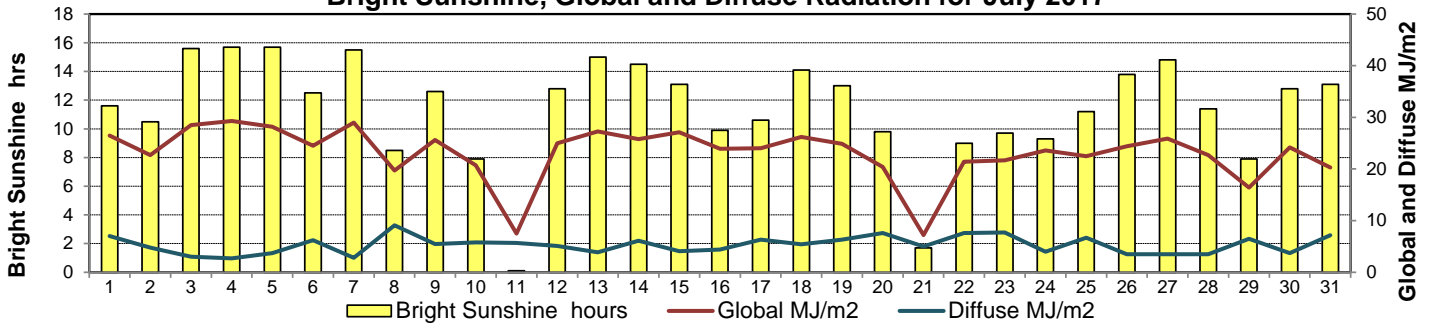
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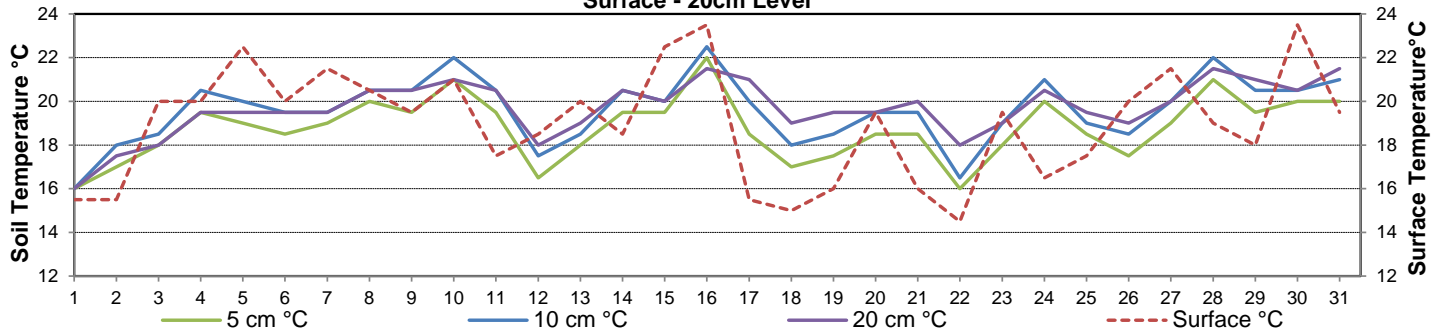
Wind Speed for July 2017



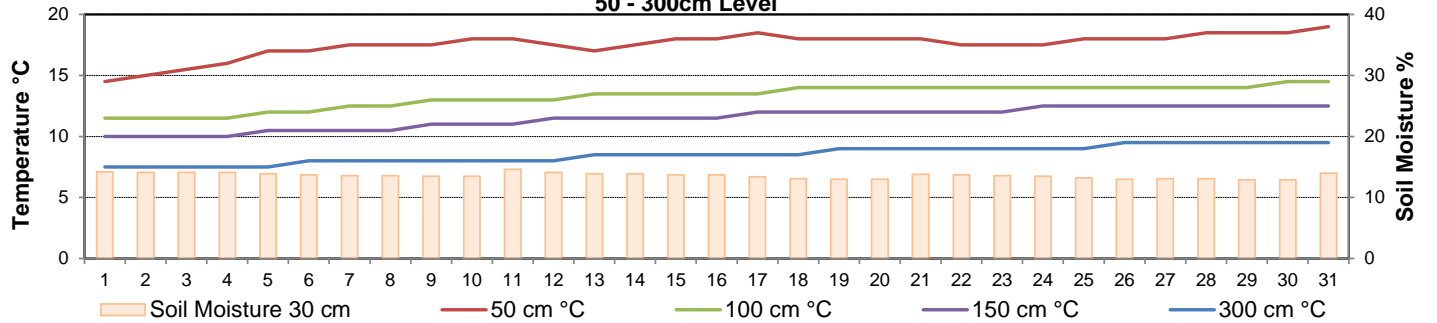
Bright Sunshine, Global and Diffuse Radiation for July 2017



**Soil Temperatures for July 2017
Surface - 20cm Level**



**Soil Temperatures for July 2017
50 - 300cm Level**





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SASKATOON STATION 4057180

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

Preliminary JULY 2017

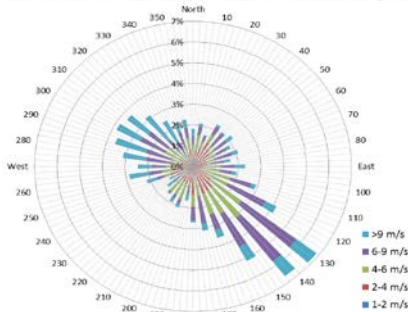
Extreme Records for July

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
40.0	(1919,41)1946	(SE SA) US	39.3 05/2001	162.9	1928	SE	125.9 1971	113 ^E	05/1955	160	1985	386.2	1974	31	1967*
-0.6	25/1918	SE	1.7 02,09/1967,78	0.0	1988	SC	13.0 1984					185.5	1998	27	2004

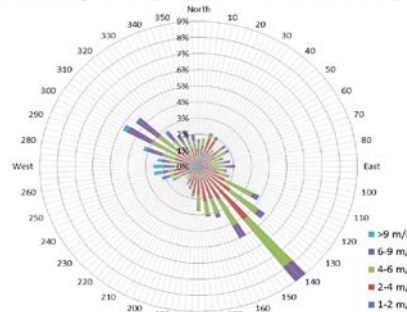
**1975 forward * more than one year

Notable Events for CRS Saskatoon - July						Saskatoon Area Stations			Glossary	
Element	Type	Day	New Record	Old Record	Year	Station	Operational Period	Code	Description	
Temperature	Highest Maximum Daily	16	33.9	31.7	1966	SM	NWMP c. 1892-1901	T	Trace of precipitation	
	Highest Average Daily	16	24.1	23.4	1966	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			

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



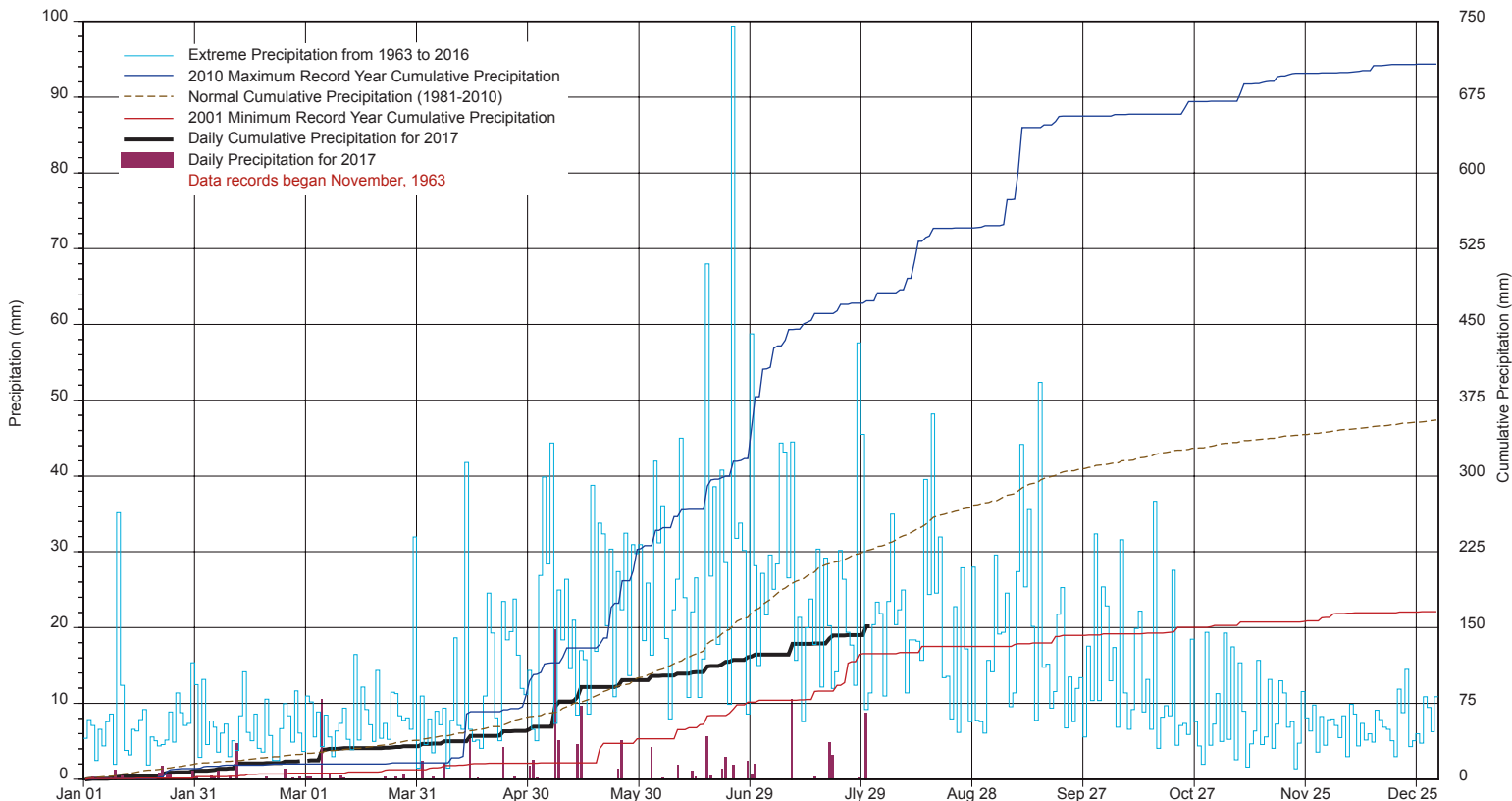
10 minute Average Wind Speed and Direction Saskatoon July 2017



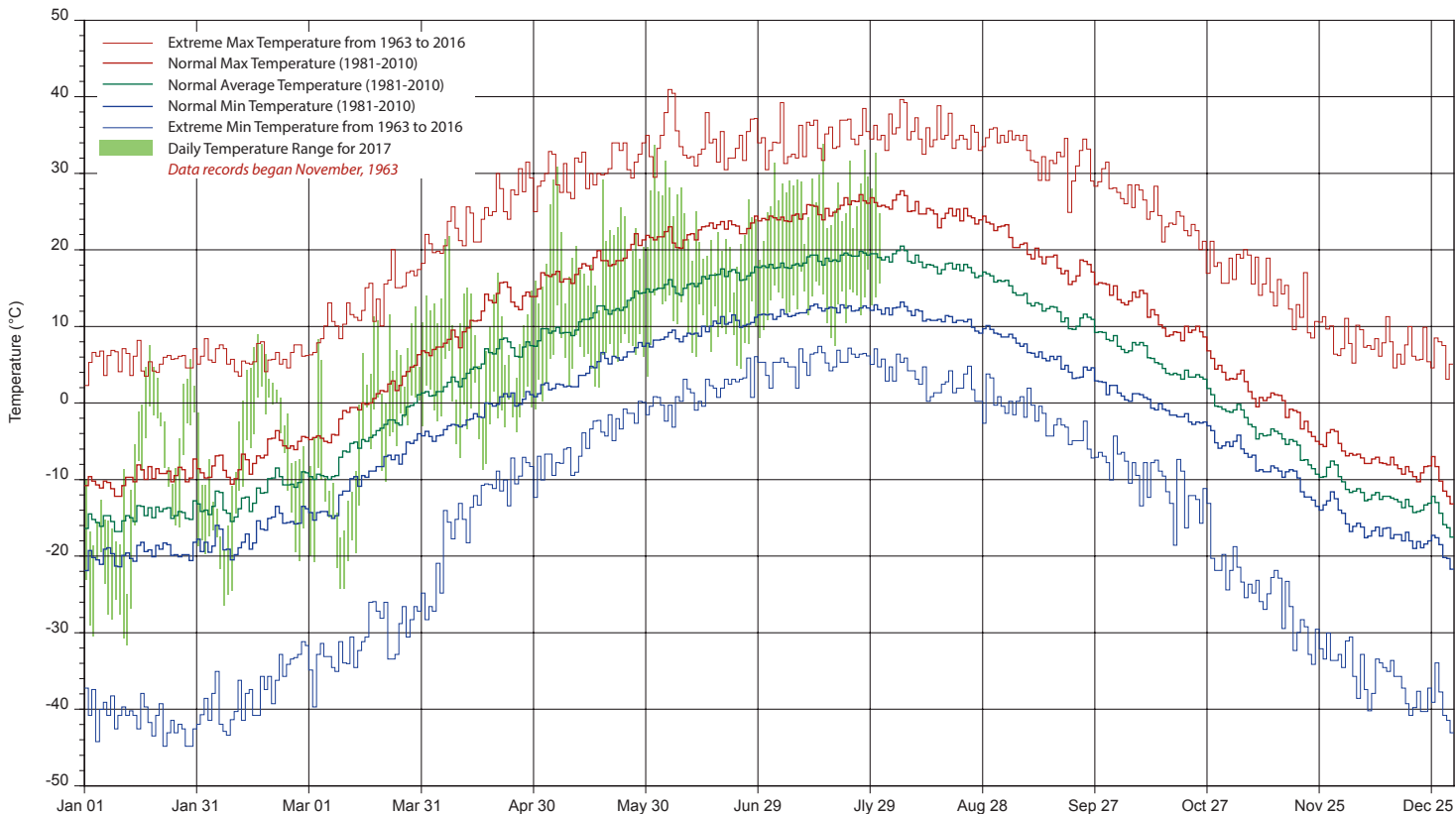
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2017 TEMPERATURES AND NORMALS



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