



# 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**

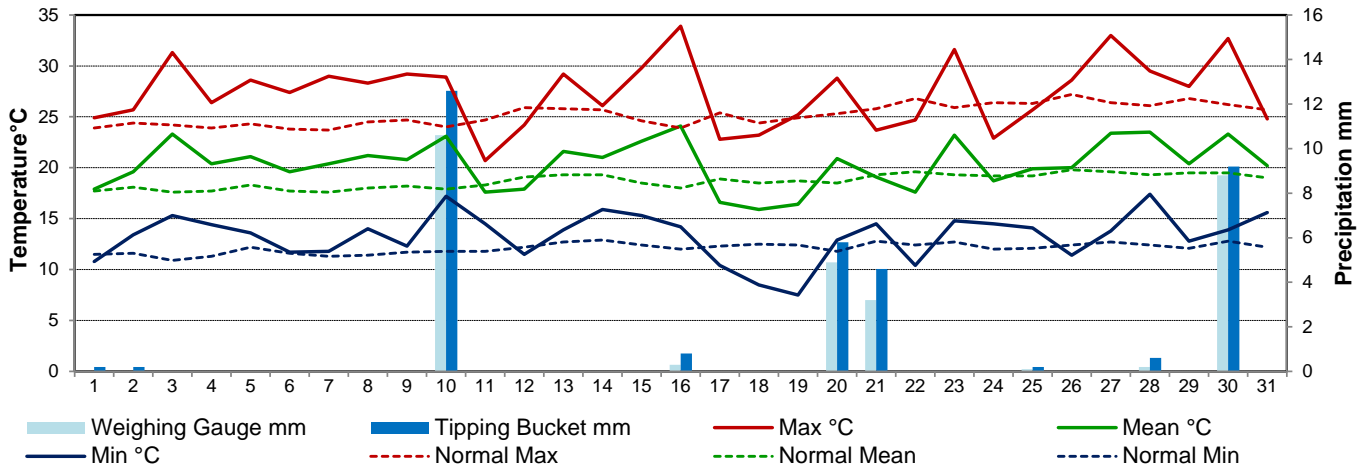
Day	Temperature						Degree-days			Precipitation			Relative Humidity		Station Pressure (sea level)		
	Max	Normal Max	Min	Normal Min	Mean	Normal Mean	Growing	Heating	Cooling	Weighing Gauge	Tipping Bucket	Notes	Max ½ hr Avg	Min ½ hr Avg	Max ½ hr Avg	Min ½ hr Avg	
	°C	1981-2010	°C	1981-2010	°C	1981-2010	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
	16		19							226.5	Cumulative Normal			1	16	7	24

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

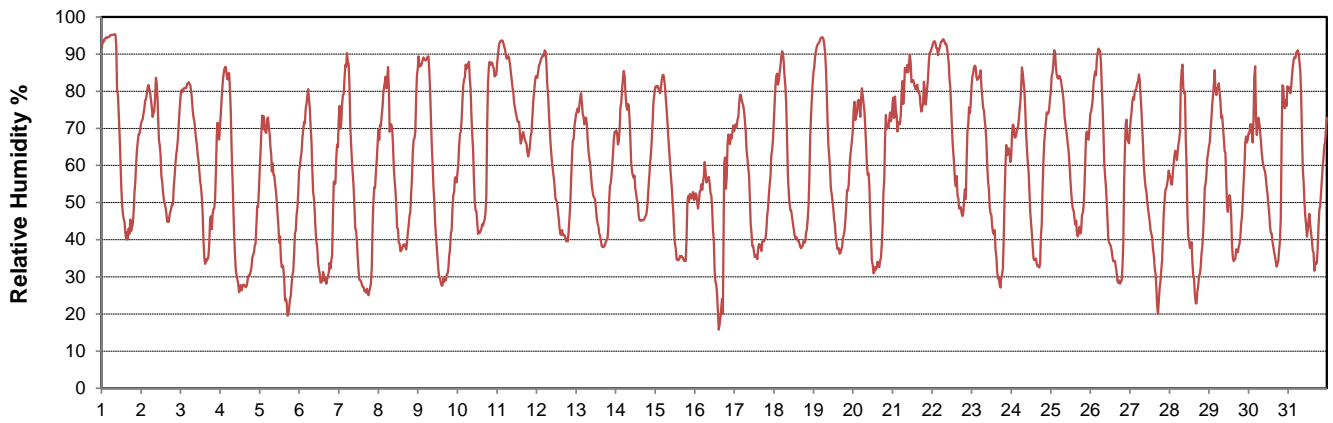
### SRC proudly recognizes the following CRS supporters:



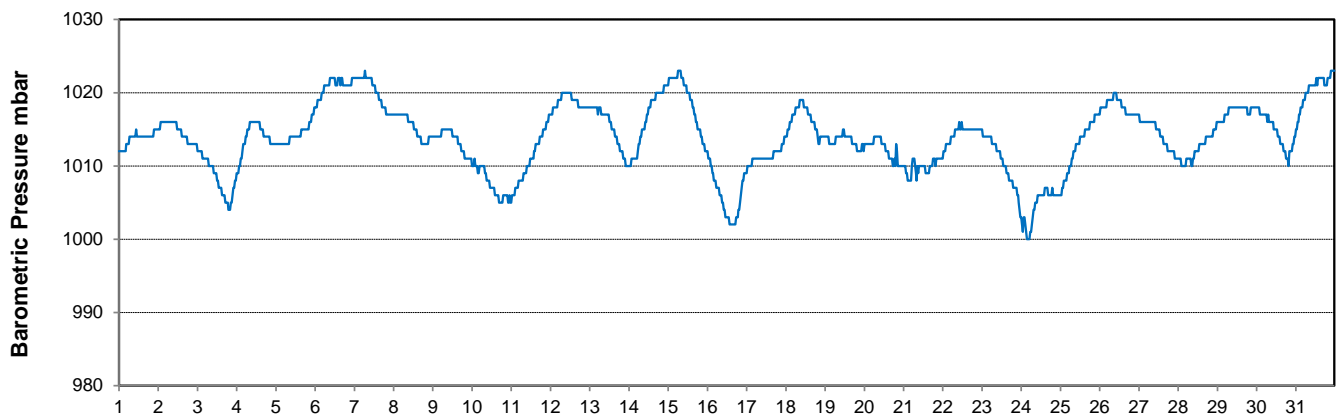
### Temperature and Precipitation for July 2017



### 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		Bright Sunshine	Possible	% Possible	Global	Diffuse
	km/h			°C	°C	°C	°C	°C	°C	°C	°C	%	hours	hours		MJ/m <sup>2</sup>	MJ/m <sup>2</sup>
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

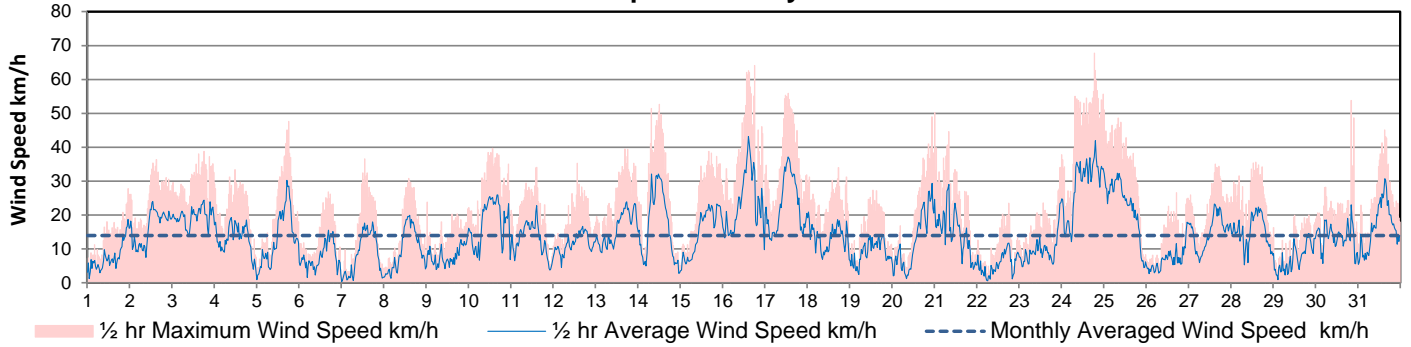
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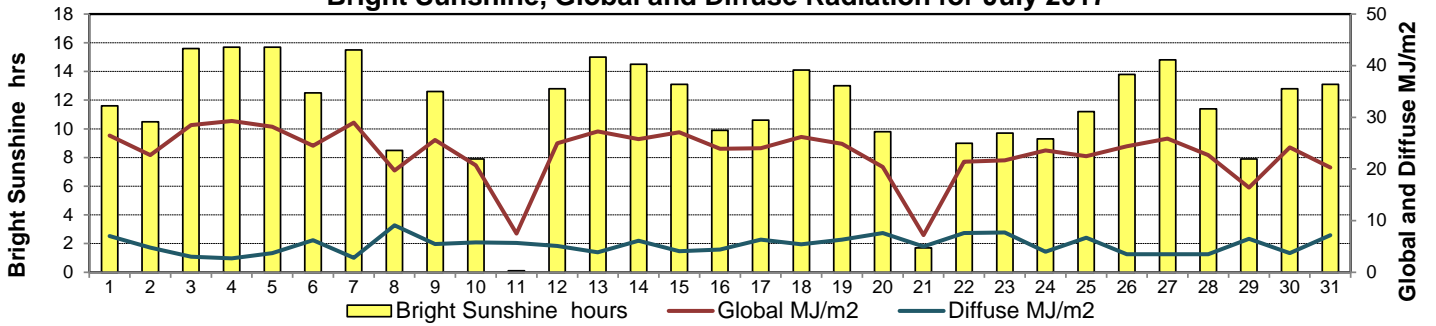
Agriculture and Agri-Food Canada / Agriculture et Agroalimentaire Canada



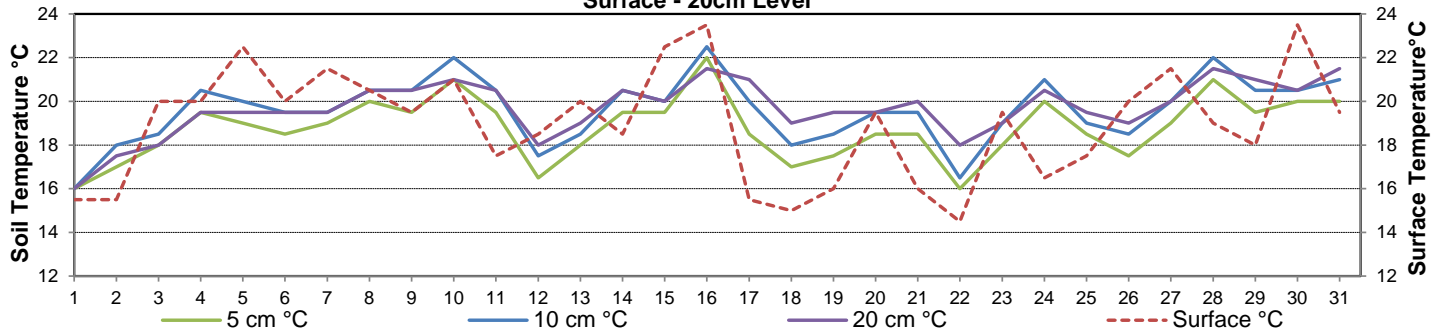
**Wind Speed for July 2017**



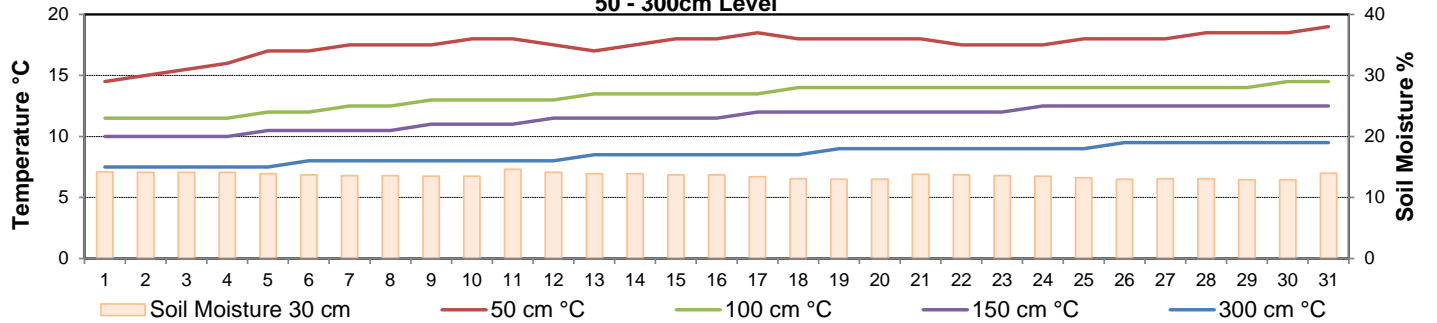
**Bright Sunshine, Global and Diffuse Radiation for July 2017**



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



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





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Preliminary JULY 2017

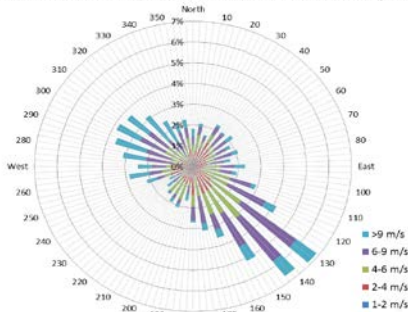
### Extreme Records for July

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 <sup>E</sup>	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

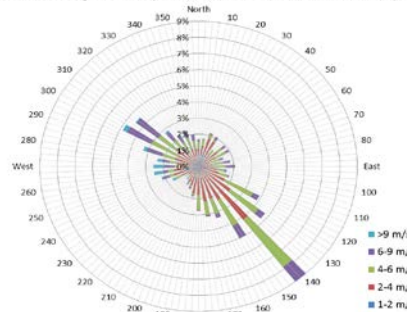
\*\*1975 forward \* more than one year

Notable Events for CRS Saskatoon - July						Saskatoon Area Stations			Glossary	
Element	Type	Day	New Record	Old Record	Year	Station	Operational Period	Symbol	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 -	<b>Degree-days</b>		
						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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