



SRC CLIMATE REFERENCE STATION DAILY DATA REPORT

SASKATOON STATION 4057180

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

Preliminary **OCTOBER 2016**

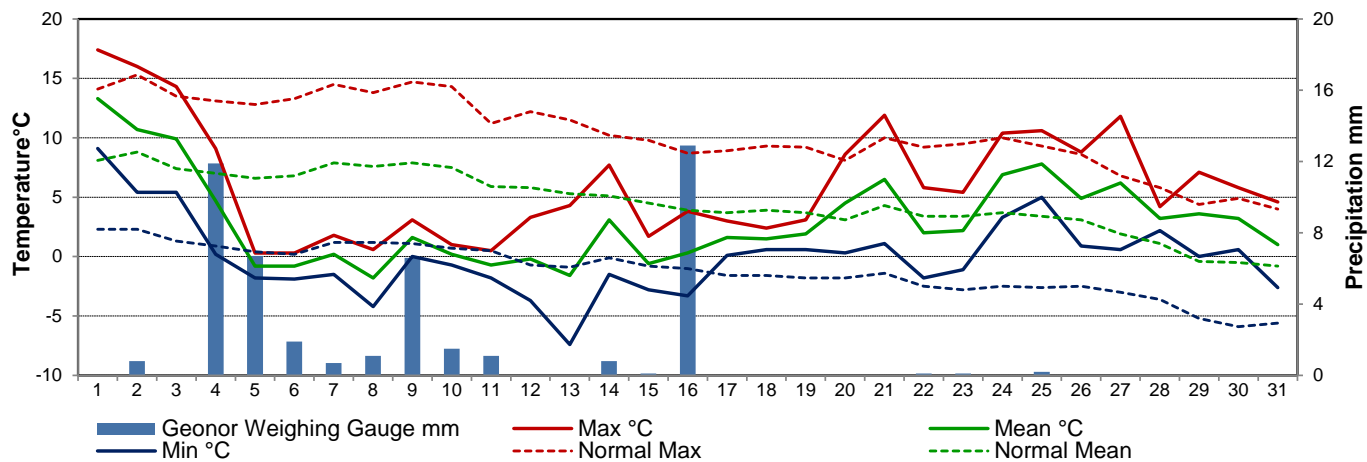
Day	Temperature						Degree-days			Precipitation			Relative Humidity		Station Pressure (sea level)	
	Max	Normal Max	Min	Normal Min	Mean	Normal Mean	Growing	Heating	Cooling	Geonor Weighing Gauge	Notes	Snow-on-Ground 0900h	Max ½ hr Avg	Min ½ hr Avg	Max ½ hr Avg	Min ½ hr Avg
	°C	1981-2010	°C	1981-2010	°C	1981-2010	5°C base	18°C base	18°C base	mm		cm	%	%	mbar	mbar
1	17.4	14.1	9.1	2.3	13.3	8.1	8.3	4.7	0.0	0.0		0	96	70	1016	1009
2	16.0	15.3	5.4	2.3	10.7	8.8	5.7	7.3	0.0	0.8	rain	0	95	41	1014	1009
3	14.3	13.5	5.4	1.3	9.9	7.4	4.9	8.1	0.0	0.0		0	86	36	1014	1009
4	9.1	13.1	0.2	0.9	4.7	7.0	0.0	13.3	0.0	11.9	rain/snow mix	0	98	62	1009	1007
5	0.3	12.8	-1.8	0.4	-0.8	6.6	0.0	18.8	0.0	6.7	snow	5	99	98	1010	1006
6	0.3	13.3	-1.9	0.2	-0.8	6.8	0.0	18.8	0.0	1.9	snow	13	98	93	1023	1010
7	1.8	14.5	-1.5	1.2	0.2	7.9	0.0	17.8	0.0	0.7	snow	7	98	77	1023	1022
8	0.6	13.8	-4.2	1.2	-1.8	7.6	0.0	19.8	0.0	1.1	snow	6	98	75	1025	1016
9	3.1	14.7	0.0	1.1	1.6	7.9	0.0	16.4	0.0	6.6	rain/snow mix	5	99	80	1015	1002
10	1.0	14.3	-0.7	0.7	0.2	7.5	0.0	17.8	0.0	1.5	snow	1	98	80	1022	1013
11	0.5	11.2	-1.8	0.5	-0.7	5.9	0.0	18.7	0.0	1.1	snow	0	98	64	1023	1021
12	3.3	12.2	-3.7	-0.7	-0.2	5.8	0.0	18.2	0.0	0.0		0	93	63	1021	1014
13	4.3	11.5	-7.4	-0.9	-1.6	5.3	0.0	19.6	0.0	0.0		0	97	57	1017	999
14	7.7	10.2	-1.5	-0.1	3.1	5.1	0.0	14.9	0.0	0.8	rain	0	96	77	998	987
15	1.7	9.8	-2.8	-0.8	-0.6	4.5	0.0	18.6	0.0	0.1		0	93	77	1005	994
16	3.8	8.7	-3.3	-1.0	0.3	3.9	0.0	17.7	0.0	12.9	rain	0	98	88	1004	989
17	3.0	8.9	0.1	-1.6	1.6	3.7	0.0	16.4	0.0	0.0		0	98	79	1004	989
18	2.4	9.3	0.6	-1.6	1.5	3.9	0.0	16.5	0.0	0.0		0	88	78	1015	1004
19	3.1	9.2	0.6	-1.8	1.9	3.7	0.0	16.1	0.0	0.0		0	90	73	1023	1015
20	8.6	8.1	0.3	-1.8	4.5	3.1	0.0	13.5	0.0	0.0		0	88	62	1023	1003
21	11.9	10.0	1.1	-1.4	6.5	4.3	1.5	11.5	0.0	0.0		0	93	56	1011	1003
22	5.8	9.2	-1.8	-2.5	2.0	3.4	0.0	16.0	0.0	0.1	fog	0	98	85	1016	1010
23	5.4	9.5	-1.1	-2.8	2.2	3.4	0.0	15.8	0.0	0.1	fog	0	99	86	1022	1016
24	10.4	10.0	3.3	-2.5	6.9	3.7	1.9	11.1	0.0	0.0		0	92	65	1021	1016
25	10.6	9.3	5.0	-2.6	7.8	3.4	2.8	10.2	0.0	0.2		0	88	63	1016	1011
26	8.8	8.6	0.9	-2.5	4.9	3.1	0.0	13.1	0.0	0.0		0	98	60	1015	1011
27	11.8	6.8	0.6	-3.0	6.2	1.9	1.2	11.8	0.0	0.0		0	95	65	1014	1002
28	4.2	5.8	2.2	-3.6	3.2	1.1	0.0	14.8	0.0	0.0		0	97	83	1019	1005
29	7.1	4.4	0.0	-5.2	3.6	-0.4	0.0	14.4	0.0	0.0		0	96	66	1020	1016
30	5.8	4.9	0.6	-5.9	3.2	-0.5	0.0	14.8	0.0	0.0		0	96	79	1016	1004
31	4.6	4.0	-2.6	-5.6	1.0	-0.8	0.0	17.0	0.0	0.0		0	97	79	1003	1000
Total							26.3	463.5	0.0	46.5			Extreme / Date	Extreme / Date	Extreme / Date	Extreme / Date
Avg	6.1	10.4	0.0	-1.2	3.0	4.6	1981-2010 Normal			19.2	Normal					
Extreme Date	17.4		-7.4				62.2	415.1	0.1	343.2	Cumulative		99	36	1025	987
Date	1		13							329.2	Cumulative No		5	3	8	14

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

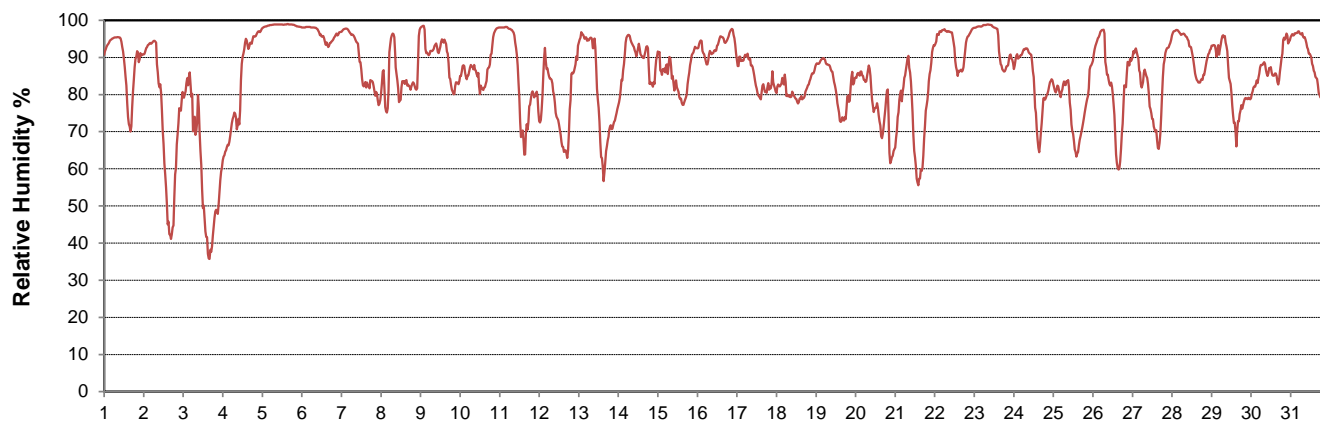
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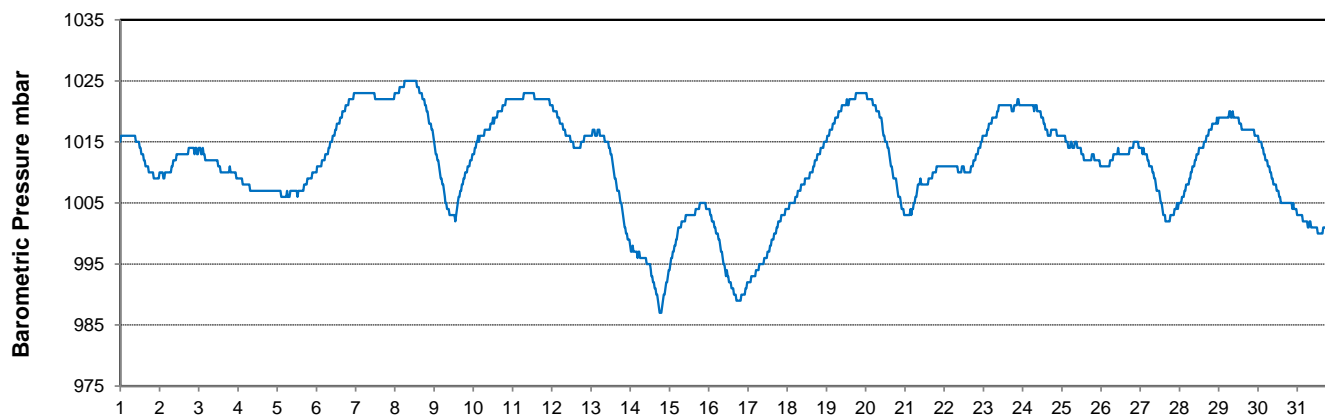
Temperature and Precipitation for October 2016



Relative Humidity for October 2016



Barometric Pressure Corrected to Sea Level for October 2016





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Preliminary **OCTOBER 2016**

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	Diffuse
	km/h			°C	°C	°C	°C	°C	°C	°C	°C	%	hours	hours		MJ/m ²	MJ/m ²
1	34.0	NE	3:36	10.0	11.5	12.0	12.0	12.0	12.0	12.0	11.5		2.7	11.6	23.3	5.5	3.4
2	32.0	WNW	9:59	10.0	11.5	12.0	12.5	12.5	12.0	12.0	11.5		8.0	11.5	69.6	11.5	2.0
3	37.4	ENE	15:04	8.0	9.5	10.5	11.5	12.5	12.0	12.0	11.5		3.2	11.4	28.0	8.3	4.3
4	60.6	NNE	17:06	7.0	9.5	10.0	11.0	12.0	12.0	12.0	11.5		0.0	11.4	0.0	1.5	1.3
5	57.3	N	2:56	0.0	5.5	6.5	8.0	11.5	12.0	12.0	11.5		0.0	11.3	0.0	3.6	3.0
6	45.6	NNW	0:09	-1.5	5.0	5.5	7.0	10.5	11.5	12.0	11.5		0.0	11.2	0.0	6.3	5.2
7	23.1	NNW	4:25	-1.5	4.0	5.0	6.0	9.5	11.5	11.5	11.5		2.2	11.2	19.7	8.1	5.7
8	40.9	SE	23:52	-1.5	4.0	4.5	5.5	9.0	11.0	11.5	11.5		0.2	11.1	1.8	5.9	4.8
9	49.0	ESE	4:16	1.0	3.5	4.0	5.0	8.5	11.0	11.5	11.5		0.0	11.0	0.0	3.5	2.9
10	34.9	WNW	0:32	-0.5	3.5	3.5	4.5	8.0	10.5	11.5	11.0		0.0	11.0	0.0	3.2	2.7
11	24.3	NW	14:24	-1.5	3.0	3.5	4.5	7.5	10.5	11.0	11.0		0.6	10.9	5.5	5.6	3.9
12	30.5	WSW	14:59	-3.0	3.0	3.5	4.0	7.0	10.0	11.0	11.0		10.1	10.8	93.2	10.6	3.4
13	40.8	ESE	10:21	-3.5	2.0	2.5	3.5	7.0	10.0	11.0	11.0		7.6	10.8	70.6	11.2	2.9
14	53.3	W	20:04	-0.5	2.5	3.0	3.5	6.5	9.5	10.5	11.0		0.1	10.7	0.9	2.7	2.2
15	35.9	WNW	0:01	-2.0	2.0	2.5	3.5	6.5	9.5	10.5	11.0		0.5	10.6	4.7	5.2	4.1
16	39.9	E	10:20	1.0	1.5	2.5	3.0	6.0	9.0	10.5	11.0		0.0	10.6	0.0	1.2	1.0
17	41.0	WNW	0:29	1.5	2.5	3.0	3.5	6.0	9.0	10.0	11.0		0.0	10.5	0.0	2.7	2.2
18	38.0	NW	4:15	0.5	2.5	3.0	3.5	5.5	8.5	10.0	11.0		0.0	10.5	0.0	2.8	2.3
19	21.4	NW	0:08	0.5	2.5	3.0	3.5	5.5	8.5	10.0	11.0		0.0	10.4	0.0	2.3	1.9
20	40.3	SSE	12:23	1.0	2.5	3.0	4.0	5.5	8.5	9.5	11.0		3.7	10.3	35.9	6.0	3.3
21	34.2	NW	14:04	1.5	3.5	4.0	4.5	6.0	8.5	9.5	10.5		8.9	10.3	86.8	8.8	1.7
22	13.8	SSW	17:15	-1.5	2.5	3.0	4.5	6.0	8.0	9.5	10.5		0.0	10.2	0.0	2.0	1.7
23	19.8	SSE	19:34	-1.0	3.0	4.0	4.5	6.0	8.0	9.5	10.5		0.3	10.1	3.0	2.7	2.2
24	36.1	SE	22:27	3.5	4.5	5.0	5.0	6.0	8.0	9.0	10.5		3.7	10.1	36.8	5.6	2.9
25	42.5	SE	4:56	4.5	5.5	6.0	5.5	6.5	8.0	9.0	10.5		2.1	10.0	21.0	5.1	3.4
26	46.3	W	12:19	4.5	5.0	5.5	6.0	6.5	8.0	9.0	10.5		5.0	9.9	50.4	5.4	2.2
27	34.6	SE	10:19	5.0	4.0	4.5	5.0	6.5	8.0	9.0	10.5		1.3	9.9	13.2	3.1	2.3
28	34.7	NNE	5:38	2.5	5.0	5.5	6.0	6.5	8.0	9.0	10.0		0.0	9.8	0.0	1.7	1.4
29	30.4	SW	15:39	1.0	4.0	5.0	5.5	6.5	8.0	9.0	10.0		0.8	9.8	8.2	2.9	2.3
30	24.8	S	5:16	4.0	4.5	5.0	5.5	6.5	8.0	9.0	10.0		0.1	9.7	1.0	2.1	1.7
31	17.5	SSW	2:39	-1.0	3.0	3.5	5.0	6.5	8.0	9.0	10.0		0.0	9.6	0.0	2.2	1.8
Total													61.1	328.07	18.6	149.3	86.1
Mean				1.5	4.4	5.0	5.7	7.7	9.6	10.4	10.9		1981-2010 Normal for Radiation				
Extreme	60.6	NNE	17:06	1971- 2000 Normal for Soil Temperatures									156.1	329.2	47.4	239.0	97.2
Date	4			4.3	4.7	6.2	8.3	9.2	9.6	9.4		No. of Bright Sunshine days = 19					

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

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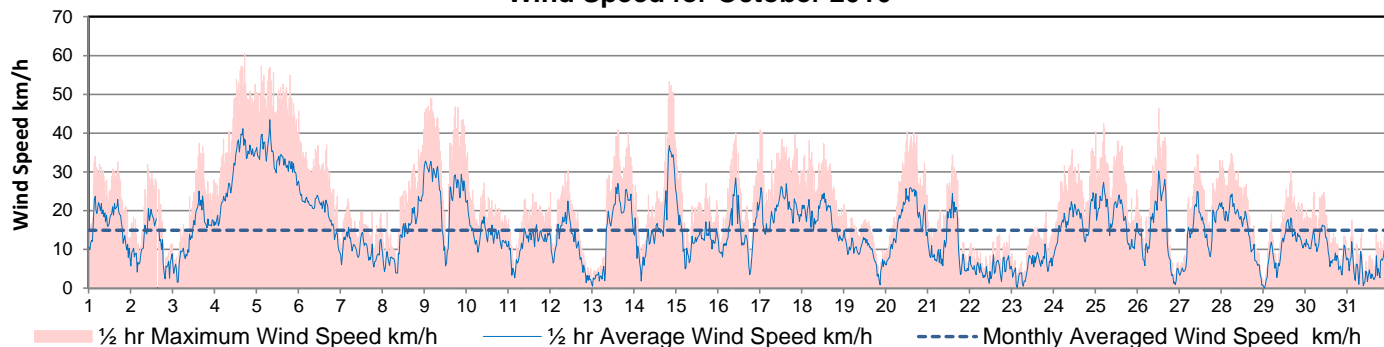


Agriculture and Agri-Food Canada

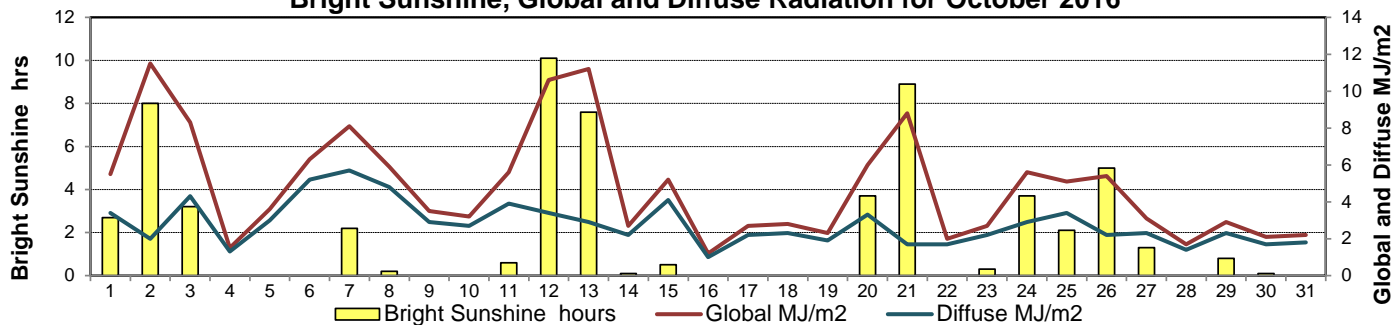
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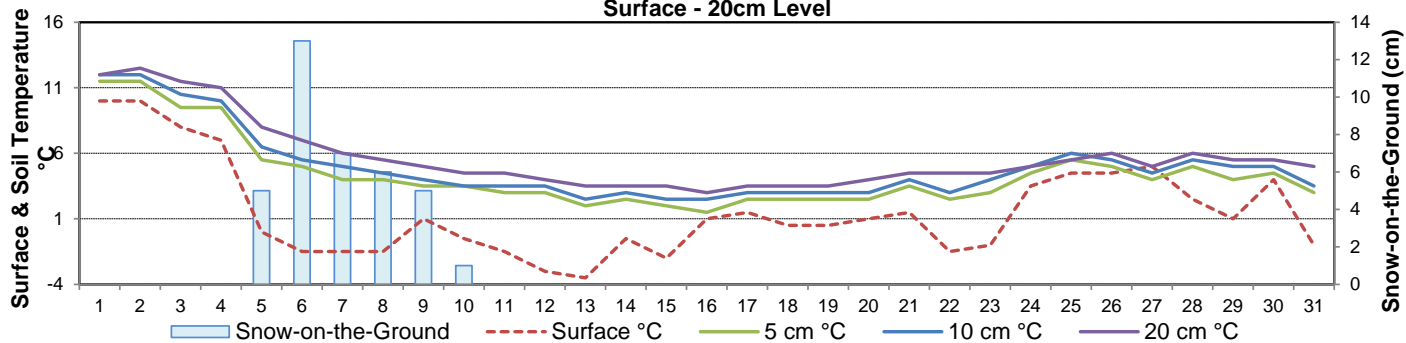
Wind Speed for October 2016



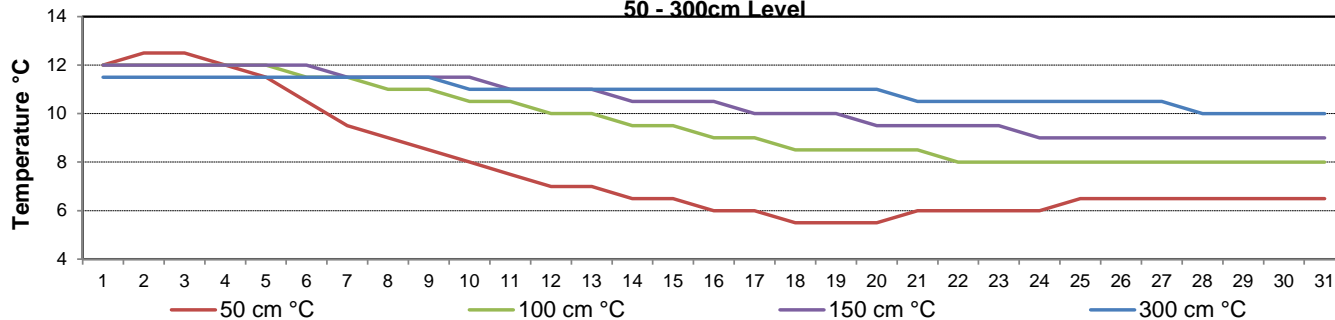
Bright Sunshine, Global and Diffuse Radiation for October 2016



**Soil Temperatures for October 2016
Surface - 20cm Level**



**Soil Temperatures for October 2016
50 - 300cm Level**





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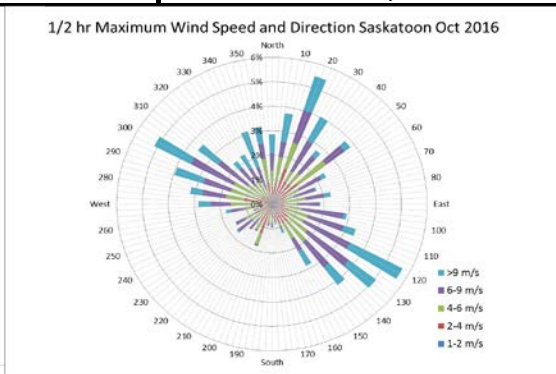
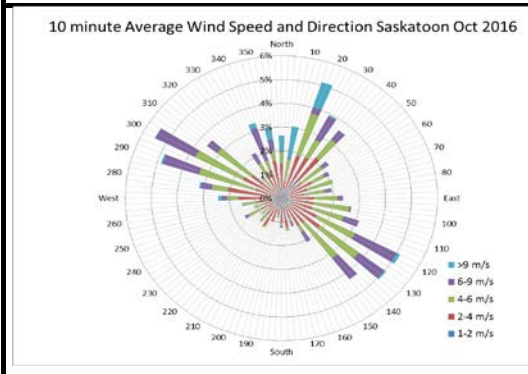
Preliminary **OCTOBER 2016**

Extreme Records for October

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
32.2	05/1943	SA US SF	28.5 06/08/1980,'84	72.4	1969	SF	69.8 1969	138 ^{NW}	16/1967	97	1976	231.3	2010	31	1965, 88
-25.6	26/1919	SE US	-21.5 29/1991	0.0	1965*	NRC*	0.0 2000					69.9	2009	20	1969

**1975 forward * more than one year/site

Notable Events for CRS Saskatoon - October						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	5	0.3	1.7	1974	SE	Eby	1901-1941	Normal	30 year average beginning with the decade
		6	0.3	1.1	1970	US	Univ. of Sask.	1915-1964	SOG	Depth of snow-on-the-ground in cm
	Highest Minimum Daily	25	5.0	5.0	1972	S	Saskatoon	1941-1942	na	not available
Precipitation	Daily Maximum	9	6.6	1.8	1977	SA	Saskatoon A	1942 -	Degree-days	
	# of days with > 5mm		4	4	1991	NRC	Nat. Res. Council	1952-1966	Tm	Mean Temperature
Bright Sunshine	Min # of days with measureable bright sunshine		19	20	1969	SRC	Sask. Res. Council	1963-	Growing	(Tm-5°C); if Tm ≤ 5°C then GDD = 0
		No of days with <1hr but > than 0		7	7	1981	SWT	S'toon Water Treatment Plant	1974 -	Heating
	Min # of days with >= 1 hr		12	18	1969	SC	S'toon Central Ave	1974-1989	Cooling	(Tm-18°C); if Tm ≥ 18°C then CDD = 0
		Minimum monthly total hrs		61.1	69.9	2009	S1	Saskatoon 1	1976-1978	Extreme Cooling
Global Radiation	Minimum monthly total (MJ/m2)		149.3	152.6	2009	K	S'toon Kernen Farm	1993-2004		
						KCS	S'toon Kernen Farm CS	1996-		
						RCS	Environment Canada	2008-		
					SF	Sutherland Forestry	1943-1970			



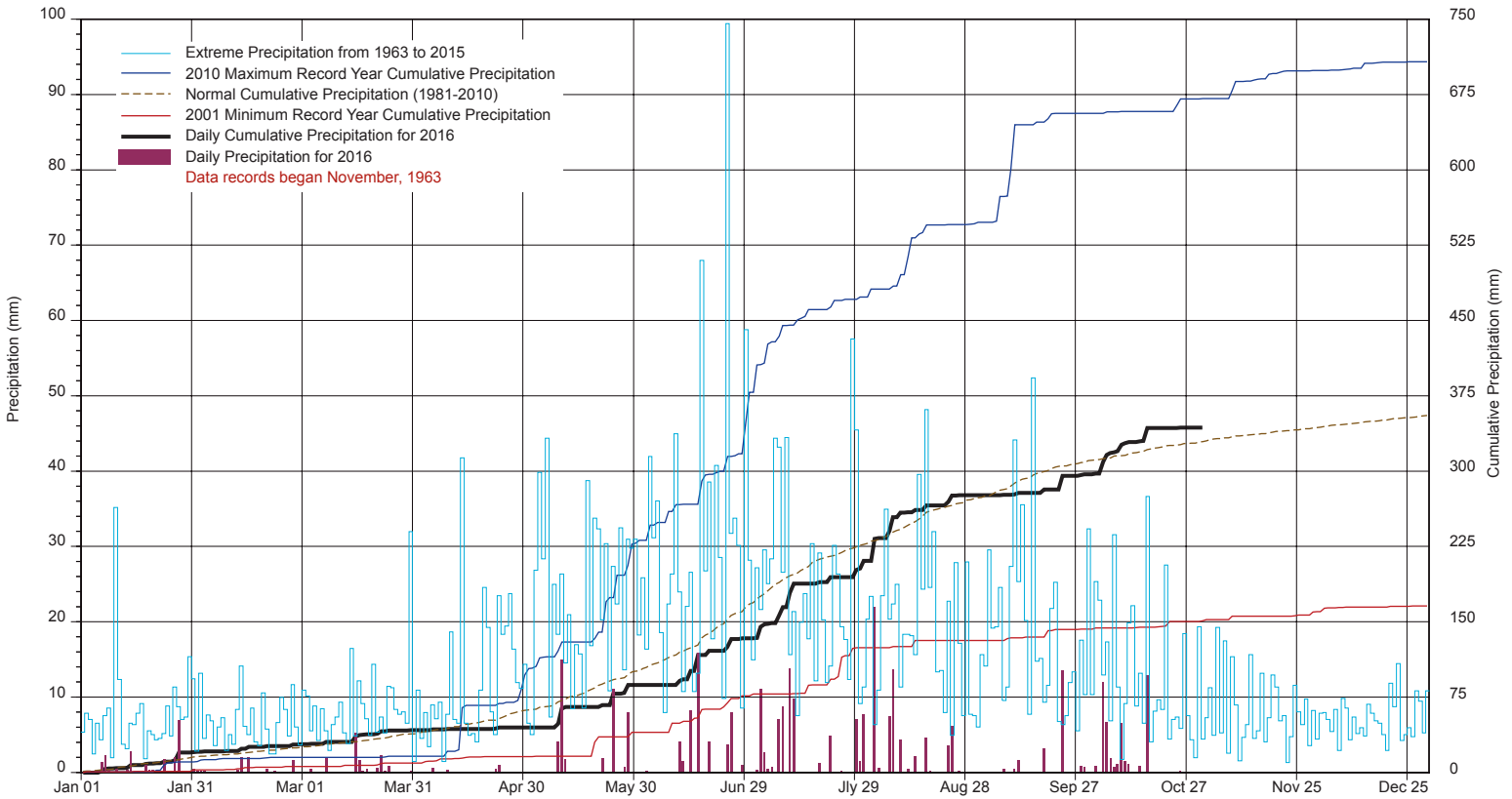
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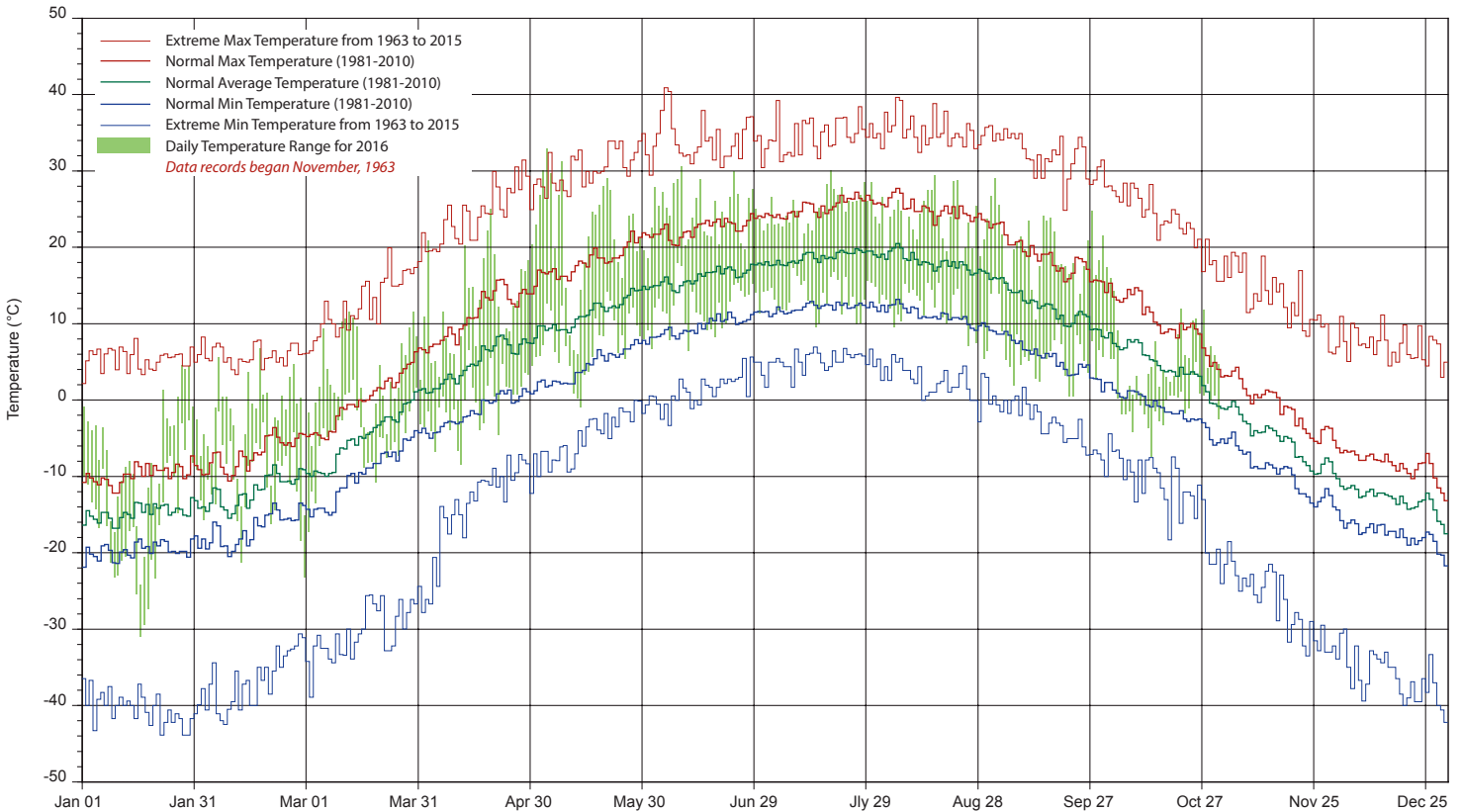
Agriculture and Agri-Food Canada Agriculture et Agroalimentaire Canada



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2016 TEMPERATURES AND NORMALS



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