



SRC CLIMATE REFERENCE STATION DAILY DATA REPORT

SASKATOON STATION 4057180

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

Preliminary **FEBRUARY 2015**

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	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	-12.7	-9.1	-23.9	-19.4	-18.3	-14.2	0.0	36.3	0.0	0.2		0	83	65	1033	1015
2	-14.2	-9.8	-20.1	-18.2	-17.2	-14.0	0.0	35.2	0.0	T	lite snow pm	0	86	68	1020	1015
3	-13.5	-9.7	-22.4	-19.5	-18.0	-14.6	0.0	36.0	0.0	0.0		0	87	66	1024	1015
4	-8.2	-8.2	-25.1	-18.7	-16.7	-13.5	0.0	34.7	0.0	0.0		0	82	64	1025	1008
5	-7.4	-6.9	-16.6	-16.0	-12.0	-11.5	0.0	30.0	0.0	1.6	snow pm	3	86	66	1016	1008
6	-16.0	-6.8	-17.3	-16.5	-16.7	-11.7	0.0	34.7	0.0	0.7	snow	5	86	80	1013	1002
7	-16.5	-8.8	-20.1	-19.2	-18.3	-14.0	0.0	36.3	0.0	2.1	snow	7	85	73	1009	998
8	-17.5	-9.7	-20.6	-19.1	-19.1	-14.4	0.0	37.1	0.0	0.0		6	86	74	1023	1009
9	-13.1	-10.6	-17.6	-20.5	-15.4	-15.5	0.0	33.4	0.0	0.7	snow	6	87	78	1023	1013
10	-12.2	-9.9	-19.8	-19.8	-16.0	-14.9	0.0	34.0	0.0	2.1	snow	9	89	69	1030	1014
11	-15.6	-8.7	-26.6	-18.9	-21.1	-13.8	0.0	39.1	0.0	0.0	Manual SOG 10	7	82	55	1039	1028
12	-7.2	-6.7	-22.8	-18.2	-15.0	-12.4	0.0	33.0	0.0	0.0		7	84	66	1027	1016
13	-6.8	-7.4	-18.7	-17.1	-12.8	-12.3	0.0	30.8	0.0	0.0		7	90	61	1030	1017
14	-17.8	-9.3	-20.7	-19.1	-19.3	-14.2	0.0	37.3	0.0	5.1	snow	7	83	62	1031	1021
15	-3.3	-7.9	-20.1	-18.3	-11.7	-13.1	0.0	29.7	0.0	0.0		17	90	82	1022	1019
16	-5.4	-6.9	-21.6	-15.4	-13.5	-11.1	0.0	31.5	0.0	0.0		14	86	63	1029	1021
17	-16.3	-7.2	-23.3	-16.5	-19.8	-11.8	0.0	37.8	0.0	0.0		12	85	63	1029	1022
18	-11.5	-6.8	-27.2	-16.6	-19.4	-11.7	0.0	37.4	0.0	0.0	Manual SOG 13	11	84	70	1024	1014
19	-2.2	-4.7	-11.9	-15.1	-7.1	-9.9	0.0	25.1	0.0	2.3	snow	11	98	71	1014	1006
20	-3.5	-4.6	-16.1	-14.9	-9.8	-9.8	0.0	27.8	0.0	2.0	snow	14	97	72	1022	1007
21	-15.9	-3.6	-26.6	-13.5	-21.3	-8.5	0.0	39.3	0.0	0.3		14	82	61	1036	1022
22	-14.4	-4.9	-31.1	-14.4	-22.8	-9.6	0.0	40.8	0.0	0.0		12	80	62	1036	1021
23	2.1	-5.6	-15.9	-15.7	-6.9	-10.7	0.0	24.9	0.0	T		11	86	62	1021	1009
24	-0.4	-5.9	-15.1	-15.6	-7.8	-10.7	0.0	25.8	0.0	1.9	snow	11	89	70	1018	1011
25	-15.1	-5.6	-24.1	-15.5	-19.6	-10.6	0.0	37.6	0.0	0.5	Manual SOG 15	14	87	63	1035	1018
26	-14.6	-6.1	-26.7	-15.8	-20.7	-11.0	0.0	38.7	0.0	0.0		14	82	61	1036	1025
27	-13.4	-5.0	-23.9	-15.7	-18.7	-10.4	0.0	36.7	0.0	0.0		14	81	62	1025	1019
28	-8.8	-4.4	-21.8	-13.5	-15.3	-9.0	0.0	33.3	0.0	0.2	lite snow	13	92	67	1020	1016
Total							0.0	954.3	0.0	19.7			Extreme / Date	Extreme / Date	Extreme / Date	Extreme / Date
Avg	-10.8	-7.1	-21.3	-16.9	-16.1	-12.0	1981-2010 Normal			9.3	Normal					
Extreme Date	2.1		-31.1				0.0	848.2	0.0	26.9	Cumulative		98	55	1039	998
	23		22							24.8	Cum. Normal		19	11	11	7

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

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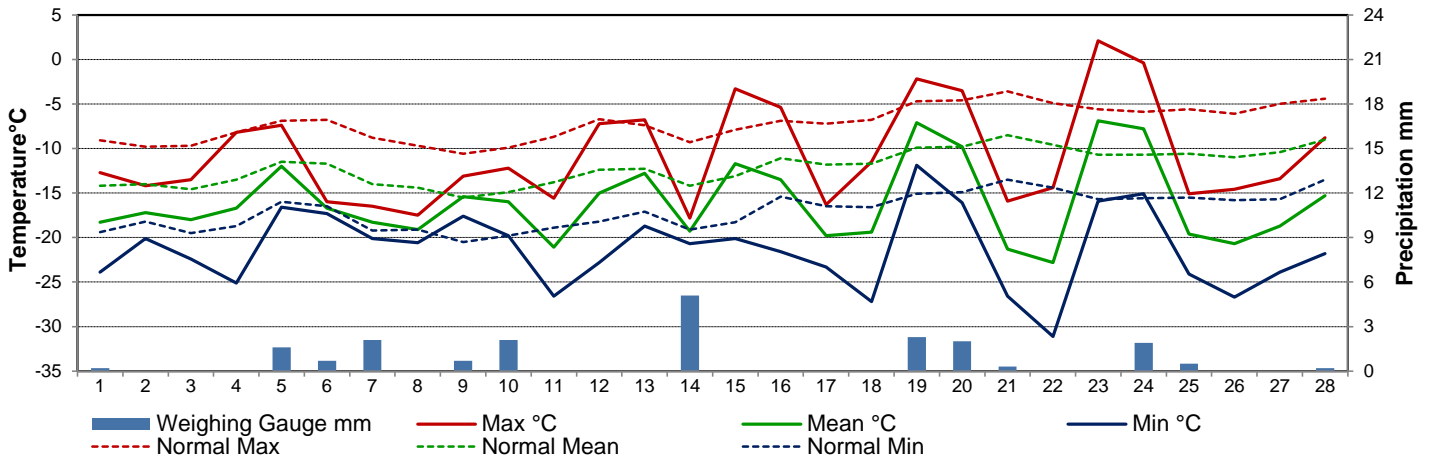


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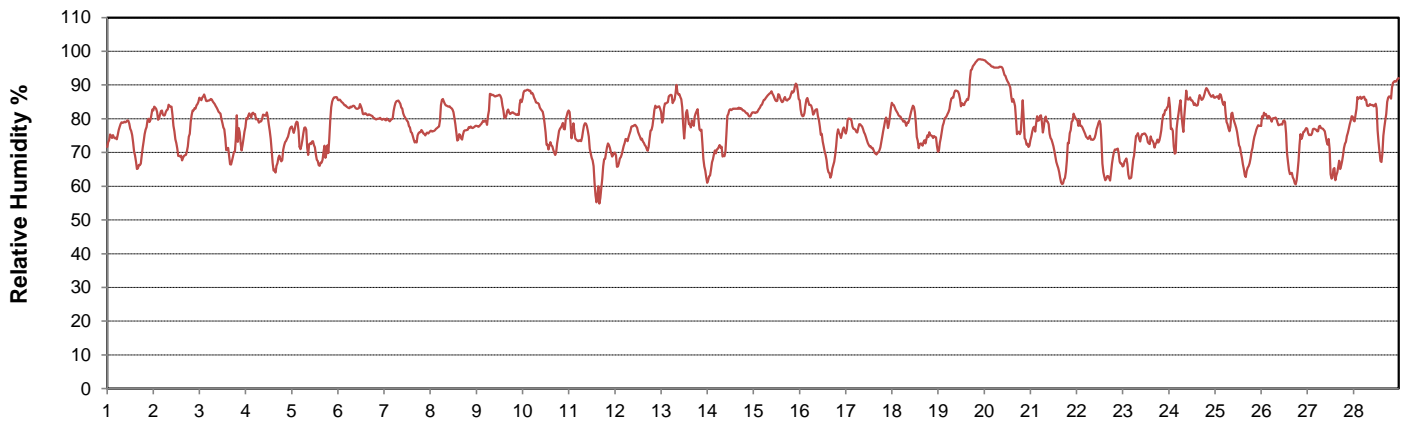
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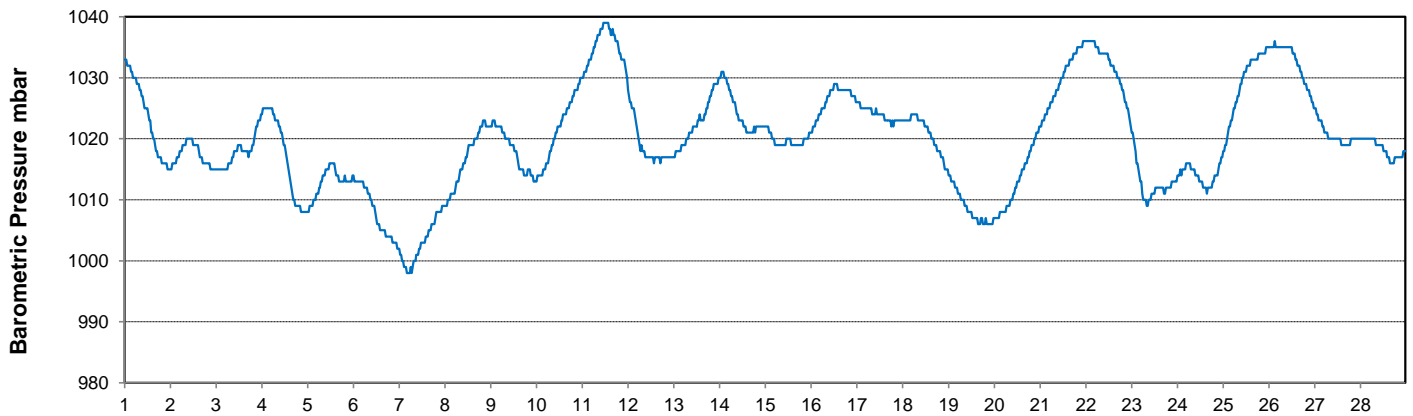
Temperature and Precipitation for February 2015



Relative Humidity for February 2015



Barometric Pressure Corrected to Sea Level for February 2015





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SASKATOON STATION 4057180

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

Preliminary

FEBRUARY 2015

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	23.1	SSW	11:42	-23.5	-5.5	-4.5	-2.5	0.5	2.0	3.0	5.5	8.7	5.5	9.1	60.3	5.3	2.8	
2	27.0	NNE	3:24	-20.0	-6.5	-5.5	-3.5	0.0	2.0	3.0	5.5	8.5	6.2	9.2	67.6	7.0	2.0	
3	43.2	N	19:40	-21.5	-7.0	-6.5	-4.5	0.0	2.0	3.0	5.5	8.4	8.1	9.2	87.8	7.8	1.6	
4	44.5	SSW	15:39	-24.5	-9.0	-8.0	-5.5	-0.5	2.0	3.0	5.5	8.1	6.8	9.3	73.2	8.1	2.0	
5	36.1	ENE	23:50	-14.0	-7.5	-7.0	-5.5	-1.0	2.0	3.0	5.5	8.3	4.7	9.4	50.3	5.6	2.9	
6	47.6	E	19:05	-16.0	-7.5	-6.5	-5.5	-1.0	2.0	3.0	5.0	8.3	0.0	9.4	0.0	2.8	2.3	
7	47.8	ESE	1:14	-19.0	-7.5	-7.0	-5.5	-1.0	1.5	3.0	5.0	8.2	7.8	9.5	82.4	6.9	2.0	
8	22.1	NE	7:00	-20.0	-7.5	-7.0	-6.0	-1.5	1.5	3.0	5.0	8.3	1.3	9.5	13.6	4.8	3.8	
9	32.8	E	21:34	-17.0	-7.5	-7.0	-5.5	-1.5	1.5	3.0	5.0	8.4	0.1	9.6	1.0	4.5	3.7	
10	39.0	NW	13:58	-15.5	-6.5	-6.0	-5.5	-2.0	1.5	3.0	5.0	8.5	6.1	9.7	63.1	7.2	2.9	
11	39.0	NNE	2:49	-27.5	-6.5	-6.0	-5.0	-2.0	1.5	3.0	5.0	8.4	8.7	9.7	89.5	9.2	1.5	
12	28.7	SSE	21:41	-15.0	-7.0	-6.5	-5.5	-2.0	1.0	2.5	5.0	8.4	4.4	9.8	45.0	6.7	3.0	
13	39.7	E	3:33	-12.5	-6.0	-5.5	-5.0	-2.0	1.0	2.5	5.0	8.6	0.6	9.8	6.1	5.1	4.1	
14	52.3	SE	9:21	-19.0	-5.5	-5.0	-4.5	-2.0	1.0	2.5	5.0	8.5	0.0	9.9	0.0	2.3	1.9	
15	22.0	NNE	23:07	-13.0	-6.0	-5.5	-4.5	-2.0	1.0	2.5	5.0	8.5	1.0	10.0	10.0	6.1	4.6	
16	36.8	NNE	6:30	-16.0	-5.5	-5.0	-4.5	-2.0	1.0	2.5	5.0	8.7	8.4	10.0	83.7	9.1	2.9	
17	32.9	WNW	6:57	-23.0	-5.0	-4.5	-4.0	-2.0	1.0	2.5	5.0	8.7	9.5	10.1	94.1	10.8	2.2	
18	31.8	SE	18:20	-25.0	-4.5	-4.5	-4.0	-2.0	1.0	2.5	5.0	8.6	1.0	10.2	9.8	6.5	5.0	
19	29.1	SE	0:12	-10.0	-4.5	-4.5	-4.0	-2.0	1.0	2.5	4.5	8.7	0.7	10.2	6.8	5.8	4.5	
20	34.4	NNE	13:30	-6.5	-4.0	-4.0	-3.5	-2.0	1.0	2.0	4.5	8.9	0.7	10.3	6.8	6.2	4.9	
21	36.4	N	11:48	-26.0	-4.0	-3.5	-3.5	-1.5	1.0	2.0	4.5	9.0	10.1	10.4	97.5	13.0	2.1	
22	30.8	SSW	23:35	-31.0	-4.0	-3.5	-3.0	-1.5	1.0	2.0	4.5	8.9	10.1	10.4	96.8	11.6	2.1	
23	49.7	SW	5:29	-5.0	-4.0	-3.5	-3.0	-1.5	0.5	2.0	4.5	8.8	8.2	10.5	78.2	9.8	3.5	
24	32.7	NE	20:00	-10.0	-3.5	-3.5	-3.0	-1.5	0.5	2.0	4.5	9.1	0.0	10.6	0.0	3.5	2.9	
25	33.3	N	11:21	-22.5	-3.5	-3.0	-3.0	-1.5	0.5	2.0	4.5	9.1	10.3	10.6	97.0	12.4	2.1	
26	22.5	S	21:56	-28.5	-3.5	-3.0	-3.0	-1.5	0.5	2.0	4.5	9.0	10.4	10.7	97.3	13.1	2.2	
27	21.4	S	0:22	-23.0	-3.5	-3.0	-2.5	-1.5	0.5	2.0	4.5	8.9	9.6	10.8	89.2	11.2	5.1	
28	28.3	WSW	16:08	-22.0	-3.5	-3.0	-3.0	-1.5	0.5	2.0	4.5	8.9	7.5	10.8	69.3	11.7	5.0	
Total													147.8	278.59	53.1	214.1	85.6	
Mean				-18.8	-5.6	-5.1	-4.2	-1.4	1.2	2.5	4.9	8.6	1981-2010 Normal for Radiation					
Extreme	52.3	SE	9:21	1971- 2000 Normal for Soil Temperatures									132.6	281.1	47.2	213.0	104.0	
Date	14				-7.0	-6.7	-6.1	-3.5	-0.8	0.8	3.4		No. of Bright Sunshine days = 25					

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

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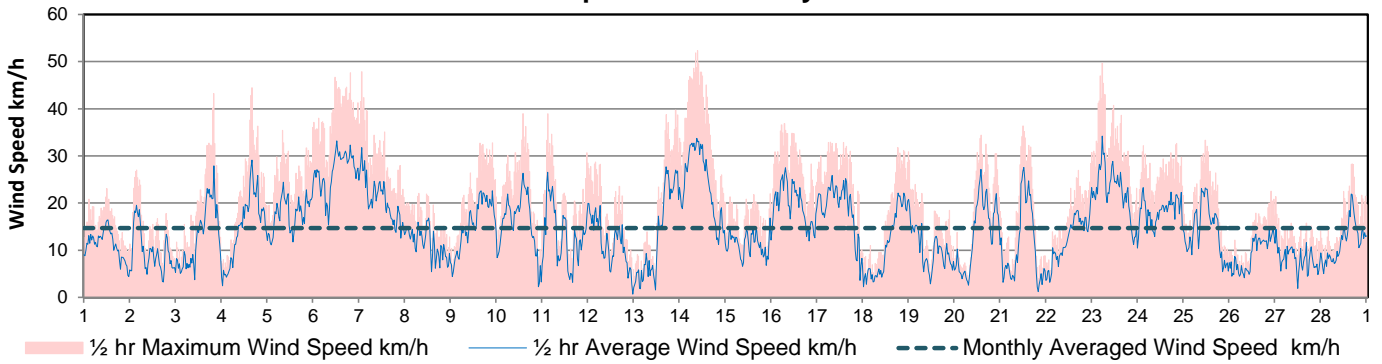


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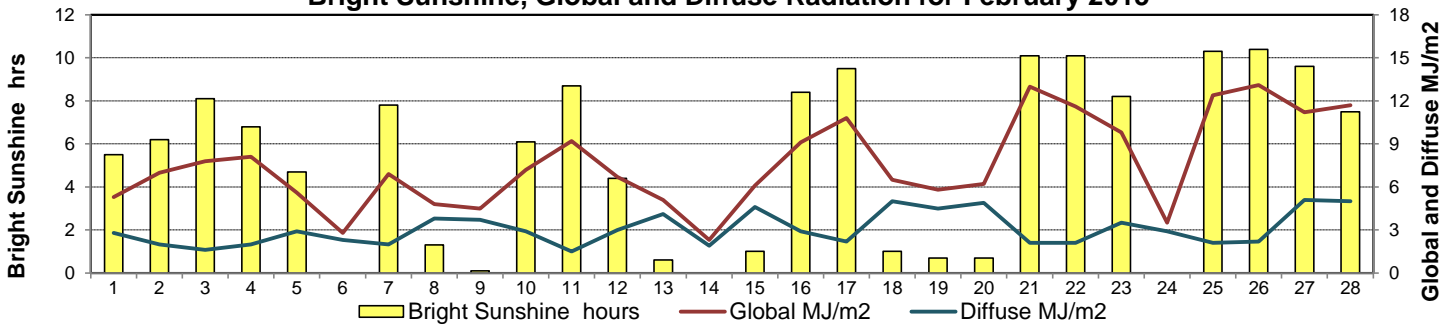
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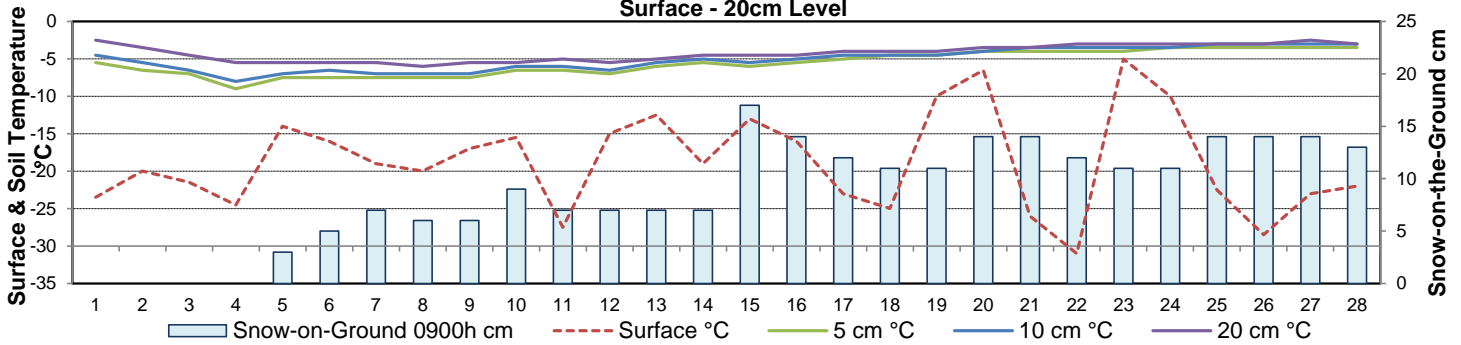
Wind Speed for February 2015



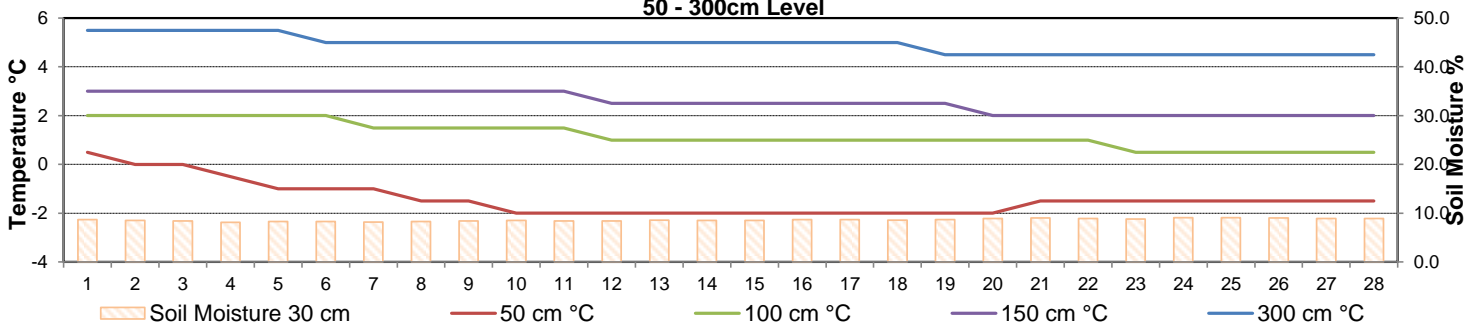
Bright Sunshine, Global and Diffuse Radiation for February 2015



**Soil Temperatures for February 2015
Surface - 20cm Level**



**Soil Temperatures for February 2015
50 - 300cm Level**





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

Preliminary **FEBRUARY 2015**

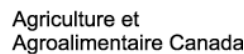
Extreme Records for February

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
12.8	19/1931	SE	8.3 02/2005	43.7	1924	SE	40.2 1979	106 ^N	22/1988	82.3 ^{NNW}	10/2004	186.9	1980	28	1978&84
-50.0	01/1893	SM	-41.1 06/1972	0.0	multiply sites		1.9 2012					57.6	1983	17	1983&98

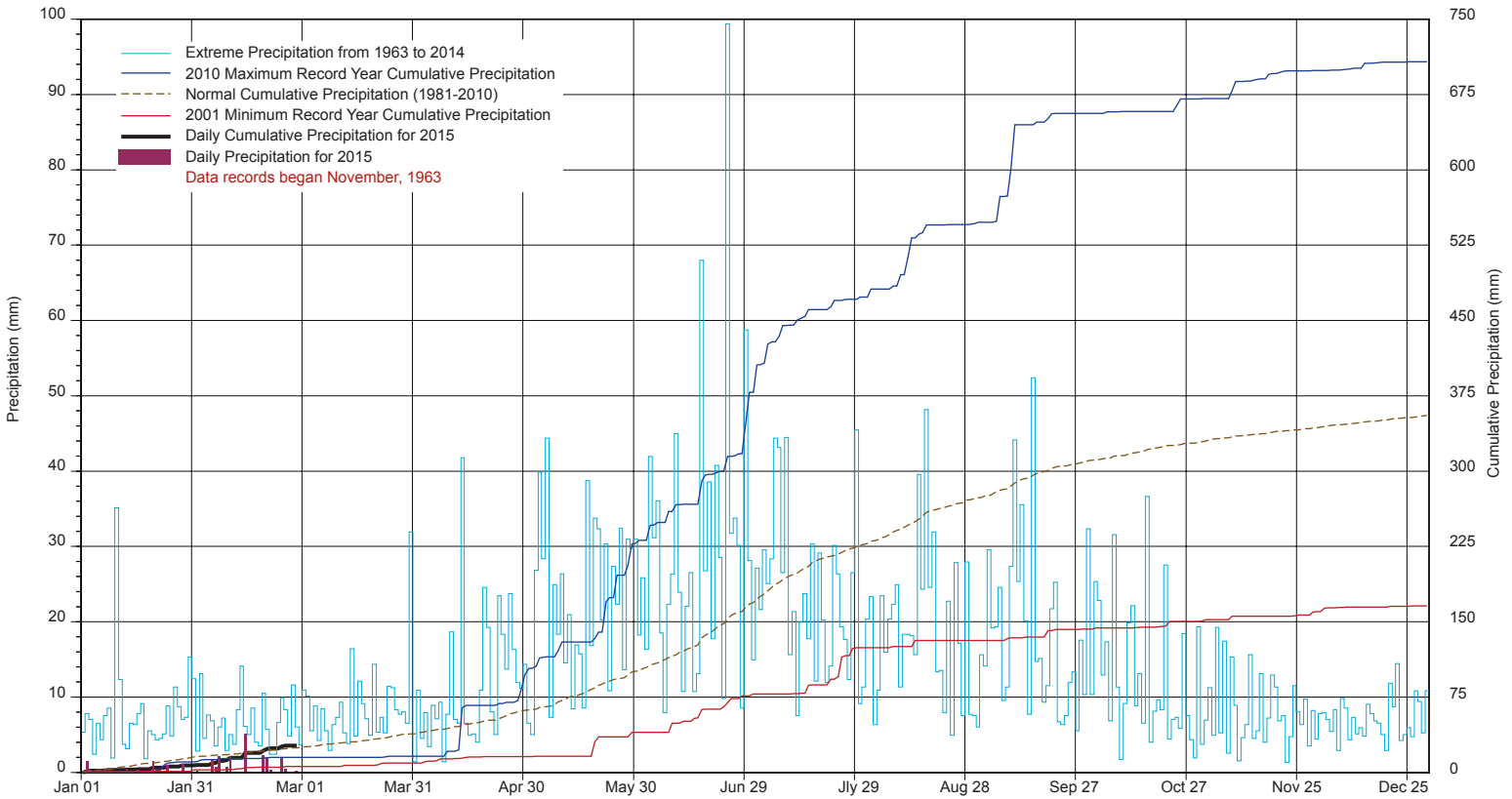
**1975 forward * more than one year

Notable Events for CRS Saskatoon - February						Saskatoon Area Stations			Glossary	
Element	Type	Day	New Record	Old Record	Year	SM	NWMP	c. 1892-1901	T	Trace of precipitation
Bright Sunshine	No of days with less than 1 hr but greater than 0		6	6	1972	SE	Eby	1901-1941	Normal	30 year average beginning with the decade
	No of days >= 10 hrs		4	3	2009	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		

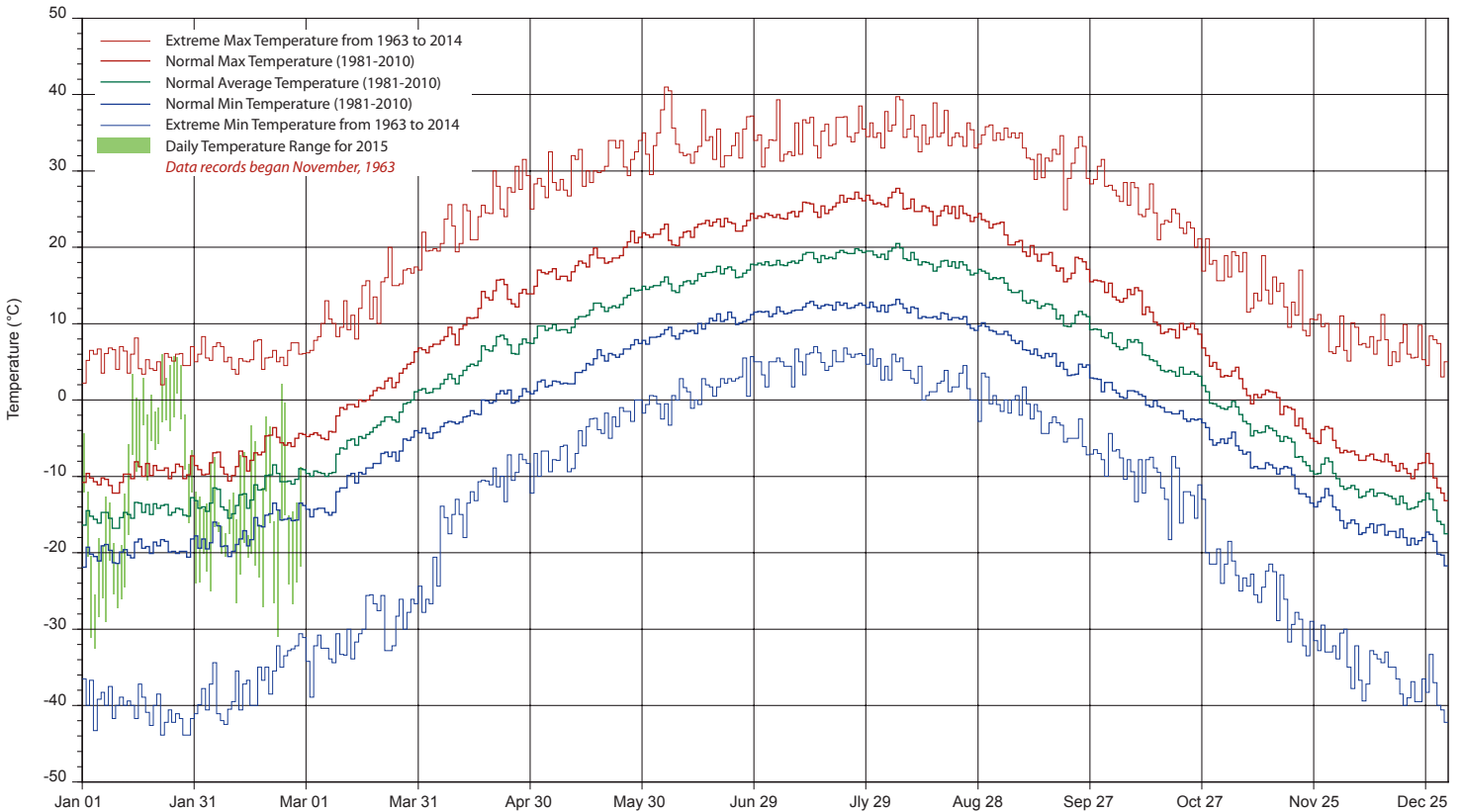
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2015 TEMPERATURES AND NORMALS



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