



SRC CLIMATE REFERENCE STATION DAILY DATA REPORT



SASKATOON STATION 4057180

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

Preliminary **APRIL 2014**

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	-1.7	6.6	-14.8	-3.7	-8.3	1.5	0.0	26.3	0.0	0.0		1	79	63	1020	1015
2	3.3	6.2	-6.1	-4.4	-1.4	0.9	0.0	19.4	0.0	0.0		1	90	38	1015	1013
3	2.9	7.0	-9.1	-5.0	-3.1	1.0	0.0	21.1	0.0	0.0		0	95	57	1018	1015
4	8.9	7.3	-5.4	-4.3	1.8	1.5	0.0	16.2	0.0	0.0		0	92	57	1016	1000
5	5.7	7.3	-1.4	-4.2	2.2	1.5	0.0	15.8	0.0	0.0		0	87	53	1009	1004
6	10.3	7.8	-2.9	-3.5	3.7	2.1	0.0	14.3	0.0	0.0		1	90	51	1010	1005
7	12.0	8.3	-0.1	-3.0	6.0	2.7	1.0	12.0	0.0	0.0		0	89	34	1014	1010
8	18.2	9.5	1.3	-2.8	9.8	3.4	4.8	8.2	0.0	0.0		0	81	31	1013	999
9	12.2	8.6	2.2	-2.9	7.2	2.8	2.2	10.8	0.0	0.0		0	70	27	1005	996
10	11.5	7.2	-0.5	-3.1	5.5	2.1	0.5	12.5	0.0	1.0		0	73	29	1009	1006
11	5.2	9.3	-2.6	-2.9	1.3	3.2	0.0	16.7	0.0	0.0		0	97	60	1011	1005
12	3.5	9.8	-6.4	-2.2	-1.5	3.9	0.0	19.5	0.0	0.5		0	95	61	1022	1005
13	-0.3	10.8	-9.1	-2.1	-4.7	4.4	0.0	22.7	0.0	0.0	trace	0	90	39	1027	1022
14	2.6	10.7	-11.9	-1.4	-4.7	4.7	0.0	22.7	0.0	0.0		0	89	28	1027	1012
15	-0.2	10.8	-3.9	-1.8	-2.1	4.5	0.0	20.1	0.0	0.0		0	94	58	1016	1006
16	1.0	12.0	-7.1	-1.9	-3.1	5.1	0.0	21.1	0.0	0.0		0	93	62	1024	1016
17	3.1	14.2	-5.5	0.0	-1.2	7.1	0.0	19.2	0.0	0.0		0	81	56	1024	1013
18	1.2	13.4	-0.7	-0.1	0.3	6.6	0.0	17.7	0.0	11.0	Snow gauge	0	100	72	1012	1004
19	4.5	13.1	-1.9	-0.4	1.3	6.4	0.0	16.7	0.0	0.0	Snow gauge	3	98	72	1011	1004
20	4.8	14.3	-2.1	-0.2	1.4	7.1	0.0	16.6	0.0	1.8	Snow gauge	0	98	77	1018	1009
21	16.2	15.7	-1.5	0.8	7.4	8.3	2.4	10.6	0.0	0.0	Snow gauge	0	100	36	1019	1014
22	19.4	15.8	3.3	1.2	11.4	8.5	6.4	6.6	0.0	0.6		0	75	32	1014	1003
23	12.9	15.1	4.2	0.8	8.6	8.0	3.6	9.4	0.0	23.5		0	94	63	1003	998
24	5.5	13.2	0.4	1.3	3.0	7.2	0.0	15.0	0.0	2.4		0	99	88	1005	998
25	3.1	12.6	-0.1	-0.4	1.5	6.1	0.0	16.5	0.0	4.1		0	100	96	1010	1005
26	7.9	12.2	0.6	-0.2	4.3	6.0	0.0	13.7	0.0	1.6		-	100	75	1010	1003
27	5.0	14.0	0.8	0.5	2.9	7.3	0.0	15.1	0.0	16.4	slush fall	-	97	83	1004	1001
28	4.1	14.5	0.2	1.5	2.2	8.0	0.0	15.8	0.0	8.6	slush fall	2	99	83	1019	1004
29	11.1	13.9	0.1	1.1	5.6	7.5	0.6	12.4	0.0	11.0	slush fall	2	100	67	1027	1020
30	16.5	13.9	0.7	0.8	8.6	7.4	3.6	9.4	0.0	1.0		0	98	34	1027	1021
Total							25.1	474.1	0.0	83.5			Extreme / Date	Extreme / Date	Extreme / Date	Extreme / Date
Avg	7.0	11.2	-2.6	-1.4	2.2	4.9	1981-2010 Normal			22.9	Normal					
Extreme Date	19.4		-14.8				65.2	402.4	0.2	105.4	Cumulative		100	27	1027	996
	22		1							61.5	Cumulative Normal		18	9	13	9

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

SRC proudly recognizes the following CRS supporters:

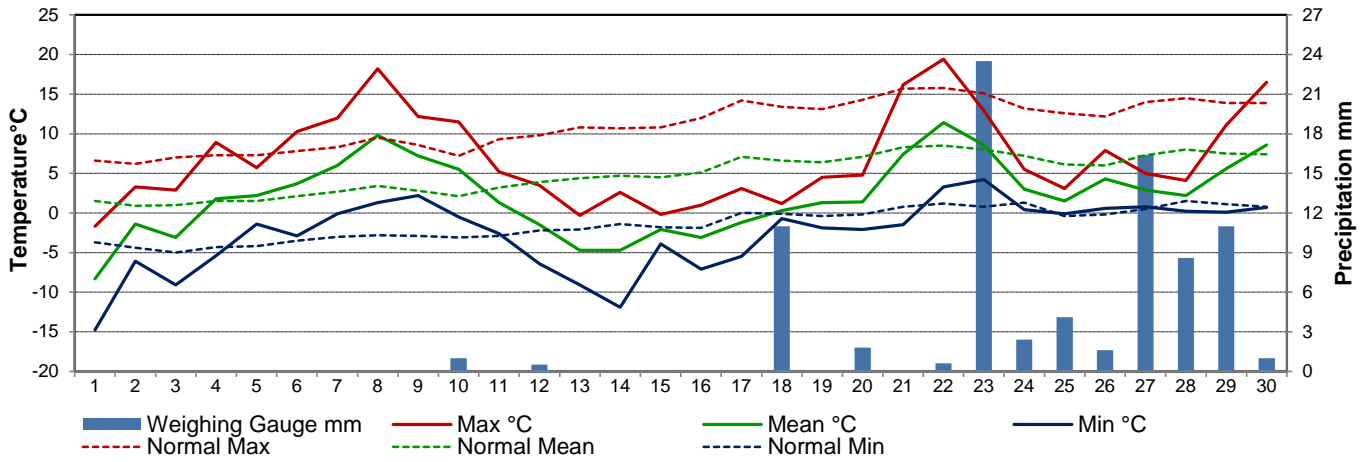


Agriculture and Agri-Food Canada

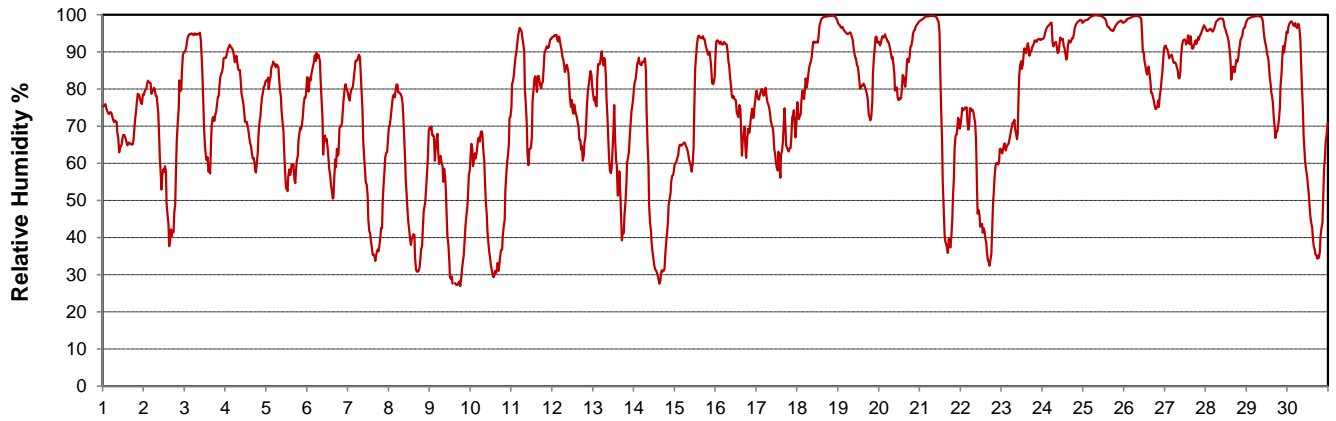
Agriculture et Agroalimentaire Canada



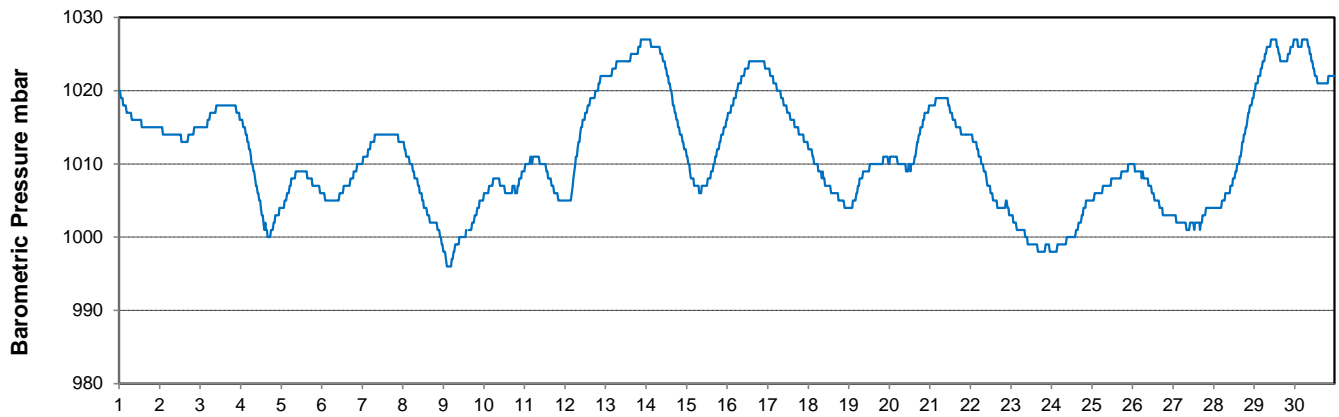
Temperature and Precipitation for April 2014



Relative Humidity for April 2014



Barometric Pressure Corrected to Sea Level for April 2014





SRC CLIMATE REFERENCE STATION DAILY DATA REPORT

SASKATOON STATION 4057180

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

Preliminary APRIL 2014

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	24.0	SE	8:33	-10.5	-3.5	-2.5	-2.0	0.0	1.0	2.0	3.5		0.0	13.0	0.0	7.4	6.2
2	30.1	SE	15:29	-5.0	-2.5	-2.0	-2.0	-0.5	1.5	2.0	4.0		10.6	13.1	81.0	18.0	3.2
3	22.4	SE	0:13	-6.0	-0.5	-0.5	-1.0	-0.5	1.0	2.0	3.5		7.0	13.2	53.2	12.8	7.0
4	54.7	SSE	12:04	-3.0	0.0	0.0	-0.5	0.0	1.5	2.0	4.0		1.8	13.2	13.6	11.7	7.1
5	27.4	SE	20:18	-1.0	0.0	0.0	-0.5	0.0	1.5	2.0	4.0			13.3	0.0	14.0	4.3
6	21.2	S	0:51	1.5	0.0	0.0	0.0	0.0	1.5	2.0	4.0			13.4	0.0	17.0	4.0
7	41.9	NW	14:32	3.0	0.0	0.5	0.0	0.0	1.5	2.0	4.0			13.4	0.0	18.9	3.2
8	34.1	WSW	15:45	3.0	0.0	0.5	0.0	0.5	1.5	2.5	4.5			13.5	0.0	17.4	4.6
9	73.2	WNW	15:19	4.5	0.5	0.5	0.0	0.5	2.0	3.0	4.5		3.0	13.6	22.1	13.7	2.7
10	58.3	NW	15:44	2.5	0.5	0.5	0.0	0.5	2.0	3.0	4.5		10.4	13.6	76.4	16.1	5.7
11	40.5	ESE	14:16	1.0	0.5	1.0	0.5	1.0	2.0	3.0	5.0		2.7	13.7	19.7	8.0	5.4
12	50.9	N	16:12	-6.0	1.0	1.0	0.5	0.5	1.5	3.5	5.0		2.5	13.8	18.2	8.4	6.2
13	40.5	N	4:39	-4.0	0.0	0.5	0.5	0.5	2.0	3.0	5.5		9.6	13.8	69.5	14.3	6.4
14	35.3	SSE	23:08	-5.5	0.0	0.5	0.0	0.5	1.5	2.5	4.0		12.2	13.9	87.9	21.4	2.6
15	44.0	ESE	8:32	-1.5	0.0	0.5	0.0	0.5	1.5	2.0	4.0		0.0	13.9	0.0	8.0	6.6
16	34.2	SE	12:08	-5.0	0.5	0.5	0.5	1.0	2.0				6.5	14.0	46.4	14.4	8.3
17	55.0	ESE	22:46	-3.0	0.5	0.5	0.5	1.0	2.0				2.0	14.1	14.2	9.6	7.2
18	55.7	SE	11:24	-1.5	0.0	0.5	0.5	0.5	1.5				0.0	14.1	0.0	4.0	3.4
19	32.7	N	4:06	-3.0	0.5	0.5	0.5	0.5	2.0				3.5	14.2	24.6	10.3	7.8
20	29.6	E	12:06	0.0	0.5	1.0	0.5	1.0	2.5				2.3	14.3	16.1	7.0	5.2
21	28.6	SE	18:19	-1.5	0.5	1.0	0.5	1.0	2.0				10.1	14.3	70.5	19.3	5.2
22	57.5	SE	23:06	5.5	4.0	4.0	3.0	1.5	2.5				11.4	14.4	79.2	19.0	5.9
23	54.8	ESE	0:05	6.5	5.5	6.0	5.0	2.5	2.0	2.5	4.0	20.4	0.0	14.5	0.0	2.1	1.7
24	42.0	ESE	0:28	1.5	5.0	5.5	4.0	3.0	2.0	2.0	3.5	30.3	0.0	14.5	0.0	4.7	3.7
25	32.1	NNE	16:27	-2.5	3.5	4.5	3.5	3.0	2.0	2.0	3.5	29.8	0.0	14.6	0.0	7.2	5.8
26	43.1	E	19:05	-2.5	4.0	4.5	3.0	3.0	2.5	2.0	3.5	30.7	0.0	14.6	0.0	6.3	5.0
27	50.7	SE	8:03	-2.0	4.5	5.0	3.5	3.0	2.5	2.5	3.5	30.2	0.0	14.7	0.0	3.0	2.3
28	27.0	ESE	1:07	-4.5	3.5	4.0	3.0	3.5	2.5	2.5	3.5	32.6	0.7	14.8	4.7	8.5	6.7
29	22.4	NNW	16:27	-4.5	3.5	4.0	3.0	3.5	2.5	2.5	3.5	32.8	5.6	14.8	37.8	14.6	7.2
30	42.2	E	15:36	-3.5	3.0	3.5	2.5	3.0	3.0	2.5	3.0	32.6	14.0	14.9	94.0	24.0	2.4
Total													115.9	419.04	27.7	361.1	153.0
Mean				-1.6	1.2	1.5	1.0	1.2	1.9	2.4	4.0	29.9	1981-2010 Normal for Radiation				
Extreme	73.2	WNW	15:19	1971- 2000 Normal for Soil Temperatures									227.2	418.5	54.3	486.9	186.9
Date	9				3.1	3.6	4.0	3.0	1.6	1.5	2.4		No. of Bright Sunshine days = 18				

Note: Red numbers indicate manual calculation

SRC proudly recognizes the following CRS supporters:

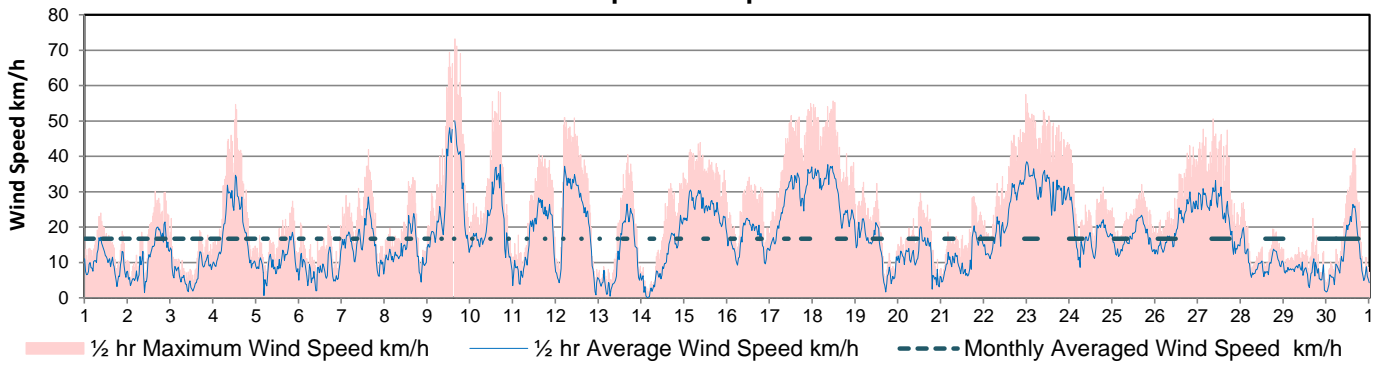


Agriculture and Agri-Food Canada

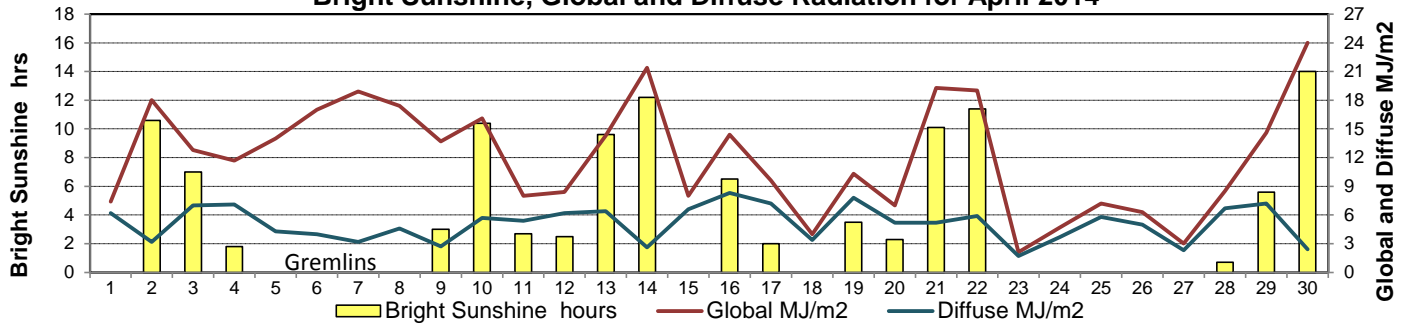
Agriculture et Agroalimentaire Canada



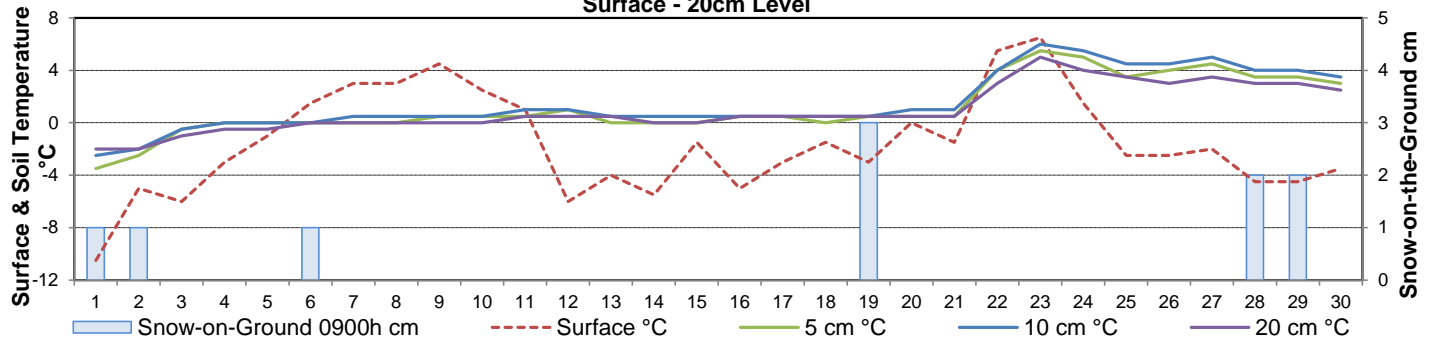
Wind Speed for April 2014



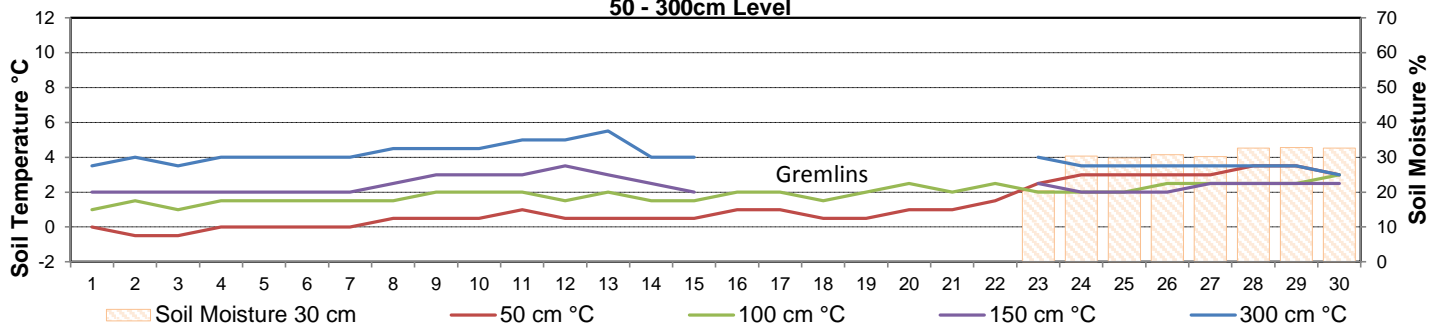
Bright Sunshine, Global and Diffuse Radiation for April 2014



Soil Temperatures for April 2014 Surface - 20cm Level



Soil Temperatures for April 2014 50 - 300cm Level





SRC CLIMATE REFERENCE STATION DAILY DATA REPORT

SASKATOON STATION 4057180

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

Preliminary **APRIL** 2014

Extreme Records for April

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
33.3	28/1952	SA US SF	31.5	28/2001	93.9	1955	SF	81.1	2010	108 ^W	06/1959	91.2 ^W	09/2010	304.7	2011	30	1968*
-37.3	08/2013	RCS	-27.8	01/1979	0.0	1897	SM	2.4	2007					165.7	1996	19	2003

**1975 forward * more than one year

Notable Events for CRS Saskatoon - April						Saskatoon Area Stations			Glossary		
Element	Type	Day	New Record	Old Record	Year	Station	Period	Code	Description		
Precipitation	Daily	18	11.0	9.1	1979	SM	NWMP	c. 1892-1901	T	Trace of precipitation	
		23	23.5	22.0	1997	SE	Eby	1901-1941	Normal	30 year average beginning with the decade	
		27	16.4	11.1	1991	US	Univ. of Sask.	1915-1964	SOG	Depth of snow-on-the-ground in cm	
	Monthly			83.5	81.1	2010	S	Saskatoon	1941-1942	na	not available
		No. of days with 5 mm ppt		5	4	1973	SA	Saskatoon A	1942 -	Degree-days	
		No. of days with 10 mm ppt		4	3	1991*	NRC	Nat. Res. Council	1952-1966	Tm	Mean Temperature
		No. of days with 15 mm ppt		2	2	1985	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	Did you Know? April proverbs are common in many countries. Rain and Flowers England: Sweet April showers, do spring May flowers. France: April makes the flowers, May has the honors Spain: A rainy April makes a pretty May Trustworthiness Sweden: The child's bottom and April weather are not to be trusted Germany: April weather, woman's love, rose-leaves, dice, and card-luck, change every moment England: April weather, Rain and sunshine, both together. Wealth England: April cold and wet fills barn and barrel. Italy: April, every drop, a barrel of wine Ireland: Better April showers than the breadth of the ocean in gold			
					K	S'toon Kernen Farm	1993-2004				
					KCS	S'toon Kernen Farm CS	1996-				
					RCS	Environment Canada	2008-				
					SF	Sutherland Forestry	1943-1970				



* more than one year

Summary

For gardeners, it was a disappointing April. The well below seasonal temperatures and enduring snow banks frustrated the hunt for emerging spring flowers among last year's fallen leaves. Except for shaded areas, the snow finally did disappear by mid-month only to reappear on the 19th. This snow fall signaled the start of a precipitation deluge coming as snow, rain and finally as slush. The total was over three and a half times the monthly normal and set a new monthly total of 83.5mm; bypassing the old recorded by 2.4mm. Up unto April, the yearly cumulative precipitation was well below normal but now the total is above the April cumulative precipitation for the record year of 2010. With spring came the emergence from hibernation of the dreaded Data Gnomes at the station. Lower soil temperatures were affected as was the bright sunshine data. Intensive trouble shooting has finally (we hope) evicted the pesky critters and fortuitously solved the problem of data from the soil moisture probe. Winds higher than 50 kph (Near Gale) occurred nine times with one occasion intensifying to Gale force (over 62kph).

SRC proudly recognizes the following CRS supporters:

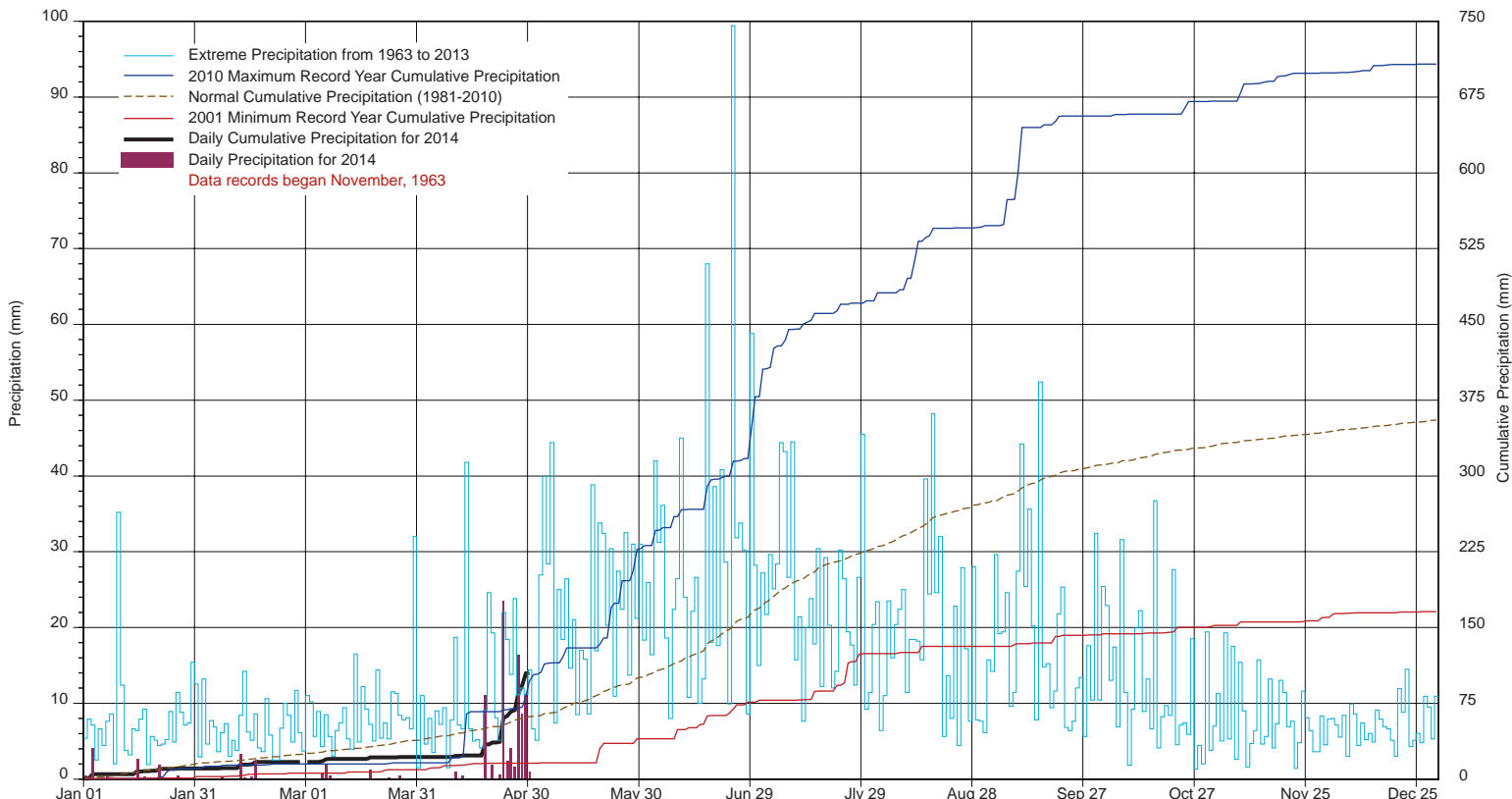


Agriculture and Agri-Food Canada

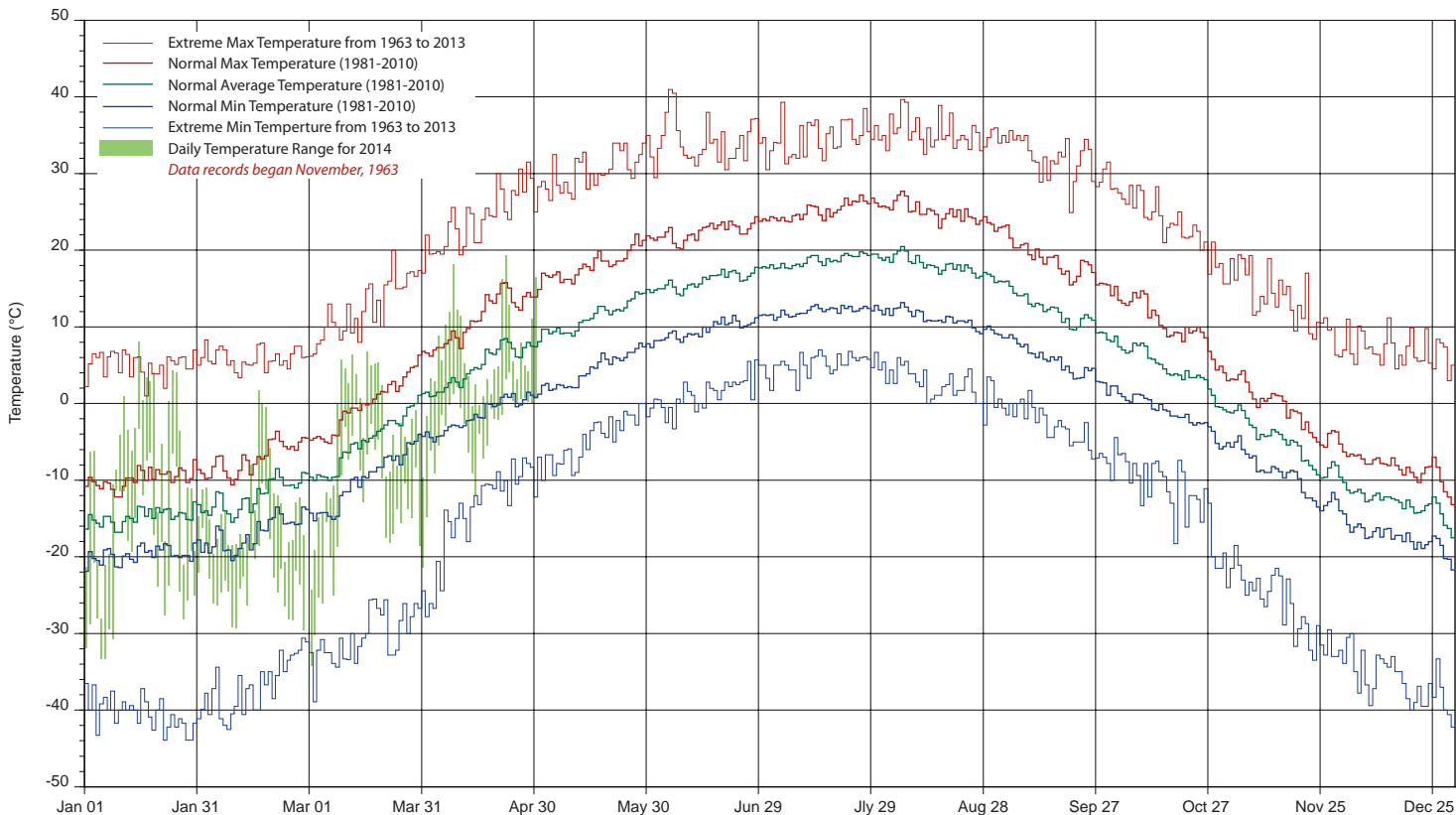
Agriculture et Agroalimentaire Canada



SASKATCHEWAN RESEARCH COUNCIL SASKATOON CLIMATE REFERENCE STATION 2014 PRECIPITATION AND NORMALS



2014 TEMPERATURES AND NORMALS



SRC proudly recognizes the following CRS supporters:



Agriculture and
Agri-Food Canada

Agriculture et
Agroalimentaire Canada

