



# SRC CLIMATE REFERENCE STATION DAILY DATA REPORT

## SASKATOON STATION 4057180

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

Preliminary JUNE 2021

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	1991-2020	°C	1991-2020	°C	1991-2020	5°C base	18°C base	18°C base	mm	mm		%	%	mbar	mbar
1	27.4	21.9	10.2	8.7	18.8	15.3	13.8	0.0	0.8	0.0	0.0		78	24	1017	1011
2	32.8	23.1	15.9	9.1	24.4	16.1	19.4	0.0	6.4	0.0	0.0		53	20	1011	1006
3	35.5	22.5	15.7	9.3	25.6	15.9	20.6	0.0	7.6	0.0	0.0		70	16	1007	1000
4	29.3	22.3	16.5	9.0	22.9	15.7	17.9	0.0	4.9	0.7	0.4	t-storms	78	17	1006	1000
5	27.5	22.0	13.4	9.5	20.5	15.8	15.5	0.0	2.5	1.5	1.2	t-storms	81	26	1000	996
6	19.0	20.8	11.2	9.7	15.1	15.3	10.1	2.9	0.0	6.0	5.0	t-storms	86	50	1005	998
7	22.6	21.2	10.9	8.5	16.8	14.9	11.8	1.2	0.0	0.7	0.6	t-storms	88	18	1011	1005
8	24.6	20.4	7.8	8.8	16.2	14.7	11.2	1.8	0.0	0.0	0.0		80	21	1018	1011
9	20.5	21.1	12.7	9.2	16.6	15.2	11.6	1.4	0.0	0.9	0.8	showers	89	60	1018	1016
10	21.8	20.9	14.3	9.1	18.1	15.0	13.1	0.0	0.1	7.3	5.8	t-storms	91	64	1016	1003
11	20.0	21.2	13.5	8.8	16.8	15.0	11.8	1.2	0.0	0.7	0.8	showers	92	45	1009	1002
12	23.9	22.2	10.0	9.4	17.0	15.8	12.0	1.0	0.0	0.0	0.0		74	21	1014	1009
13	27.8	23.4	9.7	10.1	18.8	16.8	13.8	0.0	0.8	0.0	0.0		76	16	1018	1014
14	32.2	22.4	15.9	10.9	24.1	16.7	19.1	0.0	6.1	0.0	0.0		59	22	1018	1015
15	34.4	21.3	17.1	9.8	25.8	15.6	20.8	0.0	7.8	2.3	1.8	t-storm	61	26	1015	1005
16	24.2	22.3	14.8	9.7	19.5	16.0	14.5	0.0	1.5	0.5	0.4	t-storm	77	23	1011	1006
17	21.1	21.4	10.1	10.1	15.6	15.8	10.6	2.4	0.0	0.0	0.0		73	23	1011	1008
18	18.0	22.1	10.9	10.3	14.5	16.3	9.5	3.5	0.0	0.0	0.0		86	56	1015	1012
19	21.7	22.3	10.2	11.7	16.0	17.0	11.0	2.0	0.0	0.0	0.0		90	44	1013	1008
20	18.5	21.7	6.0	10.7	12.3	16.3	7.3	5.7	0.0	0.0	0.0		88	31	1019	1010
21	24.8	23.4	4.4	10.8	14.6	17.1	9.6	3.4	0.0	0.0	0.0		83	25	1019	1007
22	30.8	23.3	12.2	11.9	21.5	17.7	16.5	0.0	3.5	0.0	0.0		73	20	1006	998
23	24.4	23.0	13.9	11.4	19.2	17.2	14.2	0.0	1.2	0.0	0.0		69	34	1011	998
24	26.4	22.4	12.0	10.5	19.2	16.5	14.2	0.0	1.2	0.1	0.0		76	24	1014	1011
25	27.8	23.0	12.6	11.1	20.2	17.1	15.2	0.0	2.2	0.0	0.0		76	30	1014	1009
26	29.7	22.9	14.0	11.2	21.9	17.1	16.9	0.0	3.9	1.8	1.4	showers	88	27	1017	1012
27	27.6	23.4	14.1	11.2	20.9	17.3	15.9	0.0	2.9	0.0	0.0		93	35	1021	1015
28	30.7	24.6	14.2	11.9	22.5	18.3	17.5	0.0	4.5	0.0	0.0		81	25	1022	1017
29	34.5	23.8	17.2	12.0	25.9	17.9	20.9	0.0	7.9	0.0	0.0		69	23	1018	1016
30	35.2	23.7	19.6	12.0	27.4	17.9	22.4	0.0	9.4	0.0	0.0		63	19	1018	1017
Total							438.7	26.5	75.2	22.5	18.2		Extreme / Date	Extreme / Date	Extreme / Date	Extreme / Date
Avg	26.5	22.3	12.7	10.2	19.6	16.3	1991-2020 Normal			73.9	1991-2020 Normal					
Extreme Date	35.5		4.4				339.1	74.2	22.9	79.7	Cumulative		93	16	1022	996
Date	3		21							168.3	Cumulative Normal		27	3	28	5

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

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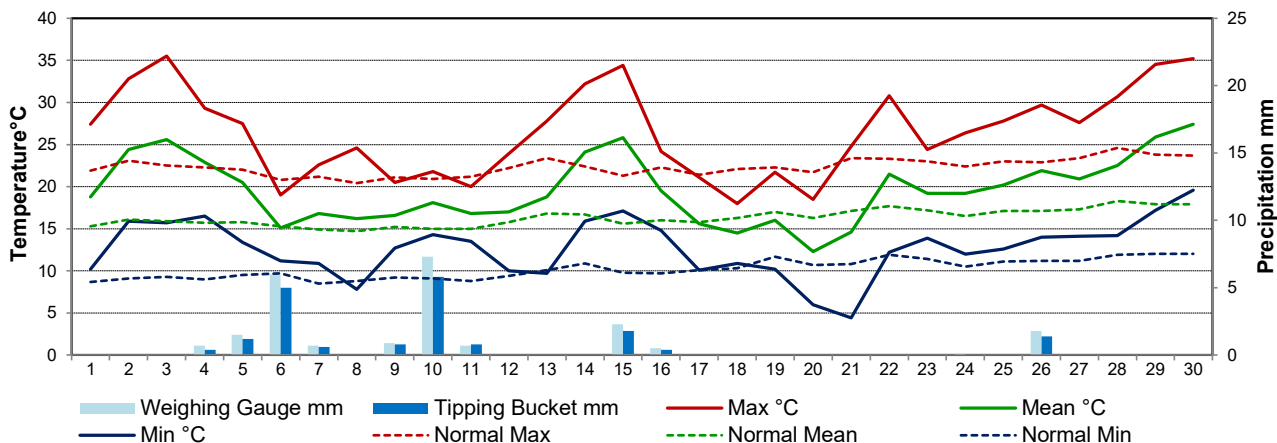


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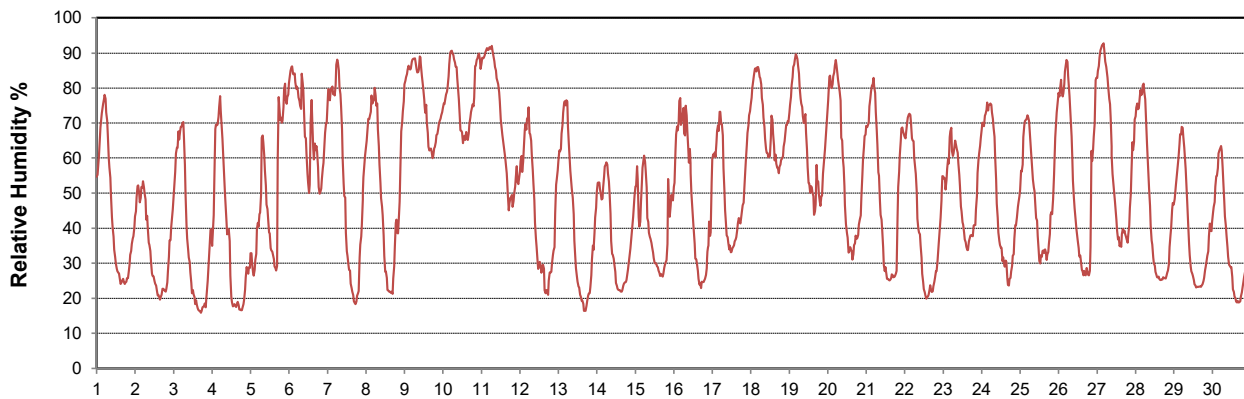
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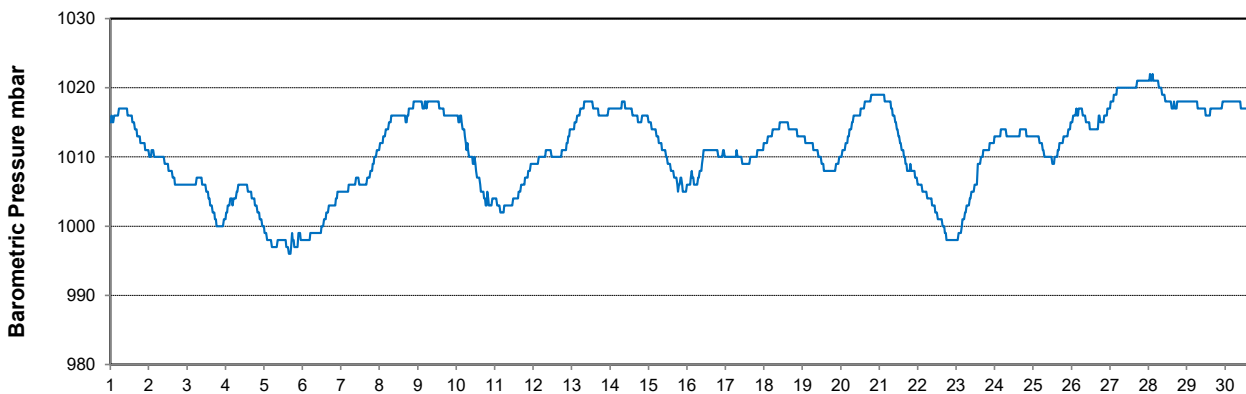
### Temperature and Precipitation for June 2021



### Relative Humidity for June 2021



### Barometric Pressure Corrected to Sea Level for June 2021





**SRC CLIMATE REFERENCE STATION DAILY DATA REPORT**

**SASKATOON STATION 4057180**

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

Preliminary **JUNE 2021**

Day	Wind Gust			Wind Speed (10 meters) Daily Average	Soil Temperatures at 0900hrs (rounded to the nearest 0.5C)								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	28.4	WNW	14:42	20.0	18.0	14.5	14.5	14.0	12.0	9.5	8.0	6.0	10.9	16.5	66.3	23.7	8.0
2	35.4	NW	15:38	14.1	23.5	16.5	16.5	16.0	12.5	9.5	8.0	6.0	14.5	16.5	88.0	25.6	7.4
3	30.9	SW	15:55	11.8	24.0	17.5	18.0	17.0	13.5	10.0	8.0	6.0	14.2	16.5	86.0	27.8	4.8
4	35.6	NW	1:29	23.8	22.5	19.5	19.5	18.5	14.5	10.5	8.0	6.0	12.6	16.5	76.2	24.9	9.1
5	61.0	NW	17:53	16.8	19.5	18.5	19.0	18.5	15.0	10.5	8.5	6.5	10.2	16.6	61.6	23.1	9.1
6	44.3	WNW	11:28	10.2	12.0	16.5	17.5	17.5	15.0	11.0	8.5	6.5	7.2	16.6	43.4	17.3	8.5
7	44.5	SSW	15:49	13.4	14.5	15.0	15.5	16.0	15.0	11.5	8.5	6.5	9.9	16.6	59.6	22.7	7.6
8	28.8	E	20:55	10.3	14.5	13.5	14.5	15.0	14.5	11.5	9.0	6.5	4.7	16.6	28.3	17.6	9.9
9	39.0	ESE	15:53	13.1	14.5	16.0	16.0	16.0	14.0	11.5	9.0	6.5	0.6	16.7	3.6	9.2	6.5
10	52.3	E	19:00	17.4	15.5	16.0	16.0	15.5	14.0	11.5	9.0	6.5	2.9	16.7	17.4	13.1	7.4
11	57.2	WNW	16:54	30.0	13.5	16.0	16.5	16.0	14.0	12.0	9.0	6.5	1.5	16.7	9.0	10.7	7.3
12	39.2	NW	12:59	24.2	18.0	13.5	14.0	14.5	14.0	12.0	9.5	7.0	12.9	16.7	77.2	23.9	8.5
13	40.0	W	16:22	23.3	18.5	14.5	14.5	15.0	14.0	12.0	9.5	7.0	16.3	16.7	97.5	30.6	4.4
14	51.2	SE	16:41	7.8	23.5	17.5	17.5	17.0	14.5	12.0	9.5	7.0	16.1	16.7	96.2	30.1	4.5
15	66.7	SSE	15:01	8.1	24.0	19.0	19.5	19.0	15.0	12.0	9.5	7.0	13.0	16.7	77.7	27.6	4.0
16	63.5	WNW	14:34	9.5	16.5	20.0	20.5	20.0	16.0	12.5	9.5	7.0	11.7	16.8	69.9	25.9	5.7
17	68.7	WNW	12:31	16.2	18.0	16.5	17.5	18.0	16.0	12.5	10.0	7.0	12.2	16.8	72.8	23.8	7.7
18	37.9	WNW	9:05	21.1	15.0	16.0	16.5	17.0	15.5	13.0	10.0	7.0	2.2	16.8	13.1	10.8	7.3
19	45.0	NNW	16:56	15.0	15.0	15.5	15.5	16.0	15.0	13.0	10.0	7.5	6.0	16.8	35.8	16.7	9.1
20	44.2	NNE	16:31	9.3	14.5	15.0	15.5	16.0	15.0	13.0	10.0	7.5	12.7	16.8	75.8	25.5	8.8
21	49.8	NE	19:46	19.2	15.0	14.0	14.5	16.0	15.0	13.0	10.0	7.5	15.2	16.8	90.7	27.3	7.8
22	35.1	W	12:48	29.0	20.5	16.5	17.0	17.0	15.0	13.0	10.5	7.5	9.4	16.8	56.1	22.4	6.8
23	49.2	NW	12:59	10.8	18.0	18.5	19.0	18.5	15.5	13.0	10.5	7.5	5.9	16.8	35.2	19.0	7.4
24	28.3	NNW	14:21	8.8	19.0	17.5	18.0	18.0	16.0	13.0	10.5	7.5	11.4	16.8	68.1	24.4	6.9
25	42.0	WSW	11:54	15.4	22.0	18.5	18.5	18.5	15.5	13.0	10.5	7.5	8.0	16.7	47.8	20.8	8.1
26	53.8	NNW	20:20	17.0	22.0	19.5	19.5	19.5	16.0	12.5	10.5	8.0	12.5	16.7	74.7	26.4	5.5
27	35.1	N	18:04	20.1	21.5	20.0	20.5	20.5	16.5	12.5	10.5	8.0	14.3	16.7	85.5	27.1	6.8
28	26.2	SSW	17:01	14.2	23.0	19.5	20.0	20.0	17.0	13.0	11.0	8.0	16.2	16.7	96.9	29.5	4.4
29	23.4	SSE	12:54	8.1	24.5	21.5	22.0	21.5	17.0	13.0	11.0	8.0	14.0	16.7	83.8	28.1	4.8
30	32.3	ESE	14:56	15.7	27.5	23.0	23.5	22.5	18.0	13.0	11.0	8.0	15.7	16.7	94.1	28.7	5.5
Total													314.9	500.4	62.9	684.3	209.6
Mean				15.8	18.9	17.2	17.6	17.5	15.0	12.0	9.6	7.0	1991-2020 Normal				
Extreme	68.7	WNW	12:31		1971- 2000 Normal for Soil Temperatures								253	500.2	50.6	612.6	218.3
Date	17				15.3	15.7	16.3	14.0	10.4	8.3	5.4	No. of Bright Sunshine days = 30					

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

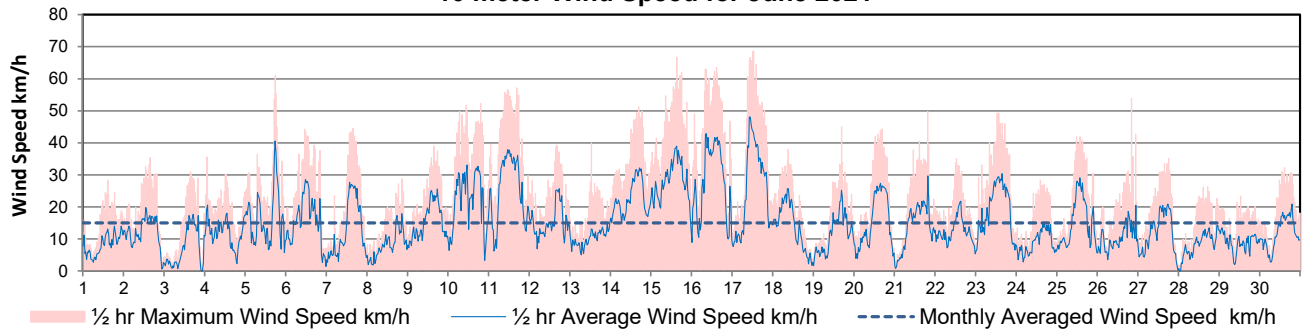
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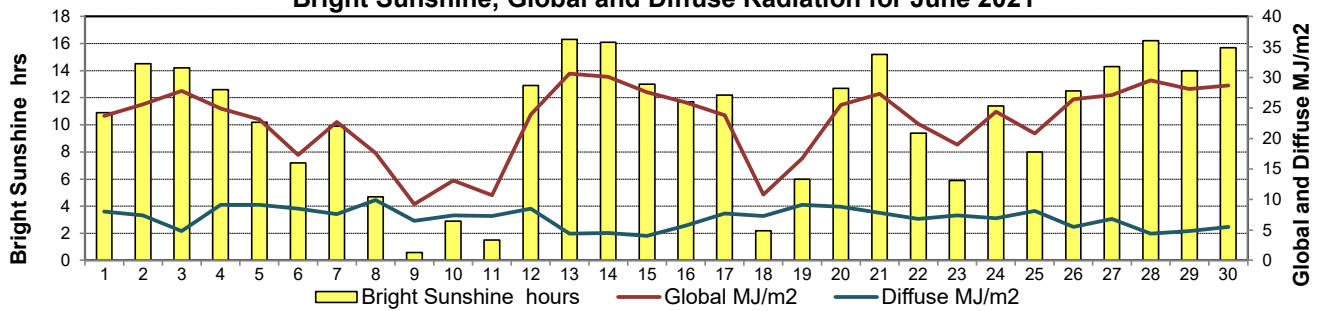
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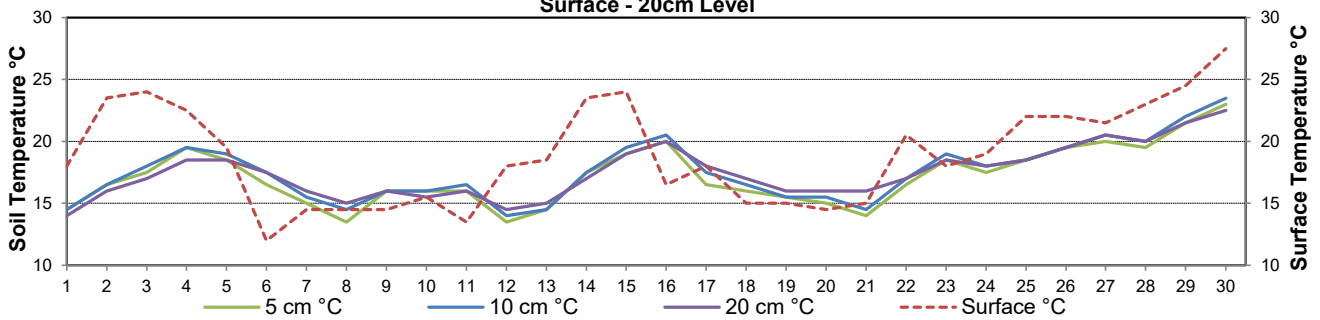
**10 meter Wind Speed for June 2021**



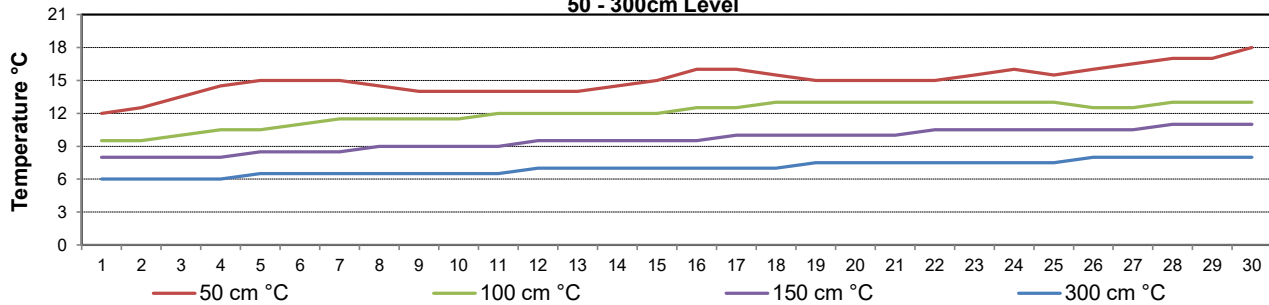
**Bright Sunshine, Global and Diffuse Radiation for June 2021**



**Soil Temperatures for June 2021**  
Surface - 20cm Level



**Soil Temperatures for June 2021**  
50 - 300cm Level





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

Preliminary JUNE 2021

Extreme Records for June

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
41.5	06/1988	S2	41.0 05/1988	186.8	1942	S	171.0 2005	117	01 <sup>S</sup> 1986	109.7 <sup>SW</sup>	22/2005	370.6	1978	30	1969*
-3.9	02/1917	US	-3.3 06/1967	5.0	2003	KCS	13.0 1985					175.3	2005	25	2002, 05

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

Notable Events for CRS Saskatoon - June						Saskatoon Area Stations			Glossary	
Element	Type	Day	New Record	Old Record	Year	SM	NWMP	c. 1892-1901	T	Trace of precipitation
Temperature	Highest Maximum Daily	3	35.5	35.0	1988	SE	Eby	1901-1941	Normal	30 year average beginning with the decade
		29	34.5	34.0	1984	US	Univ. of Sask.	1915-1964	SOG	Depth of snow-on-the-ground in cm
		30	35.2	34.7	2008	S	Saskatoon	1941-1942	na	not available
	Highest Minimum Daily	2	15.9	14.8	2017	SA	Saskatoon A	1942 -	<b>Degree-days</b>	
		15	17.1	17.0	1989	NRC	Nat. Res. Council	1952-1966	Tm	Mean Temperature
		30	19.6	18.5	1989	SRC	Sask. Res. Council	1963-	Growing	(Tm-5°C); if Tm ≤ 5°C then GDD = 0
	Highest Mean Daily	2	24.4	23.4	2006	SWT	S'toon Water Treatment Plant	1974 -	Heating	(18°C-Tm); if Tm ≤ 18°C then HDD = 0
			3	25.6	25.0	1970	SC	S'toon Central Ave	1974-1989	Cooling
		15	25.8	25.0	1987	S1	Saskatoon 1	1976-1978	Extreme Cooling	(Tm-24°C); if Tm ≥ 24°C then CDD = 0
		29	25.9	25.3	1984	S2	Saskatoon 2	1977-1990		
		30	27.4	26.3	1989	K	S'toon Kernen Farm	1993-2004		
		2	19.4	18.4	2006	KCS	S'toon Kernen Farm CS	1996-		
Growing Degree-Days	Highest Daily	3	20.6	20.0	1970	RCS	Environment Canada	2008-		
		15	20.8	20.0	1987	SF	Sutherland Forestry	1943-1970		
		29	20.9	20.3	1984					
		30	22.4	21.3	1989					
Cooling Degree-Days	Highest Daily	2	6.4	5.4	2006					
		3	7.6	7.0	1970					
		15	7.8	7.0	1987					
		29	7.9	7.3	1984					
		30	9.4	8.3	1989					
Extreme Cooling Degree-Days	Highest Daily	2	0.4	New record						
		3	1.6	1.0	1970					
		15	1.8	1.0	1987					
		29	1.9	1.3	1984					
30	3.4	2.3	1989							

Precipitation highlights

June 2021 = 8th driest June for 1964-2021 period  
7th month in a row with below normal precipitation

Monthly temperature highlights

June 2021 second warmest June for 1964-2021 period. June 1988 was warmer by 1.7C for the daily mean  
June 1988 had four more +30C days than June 2021

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Preliminary **June 2021**

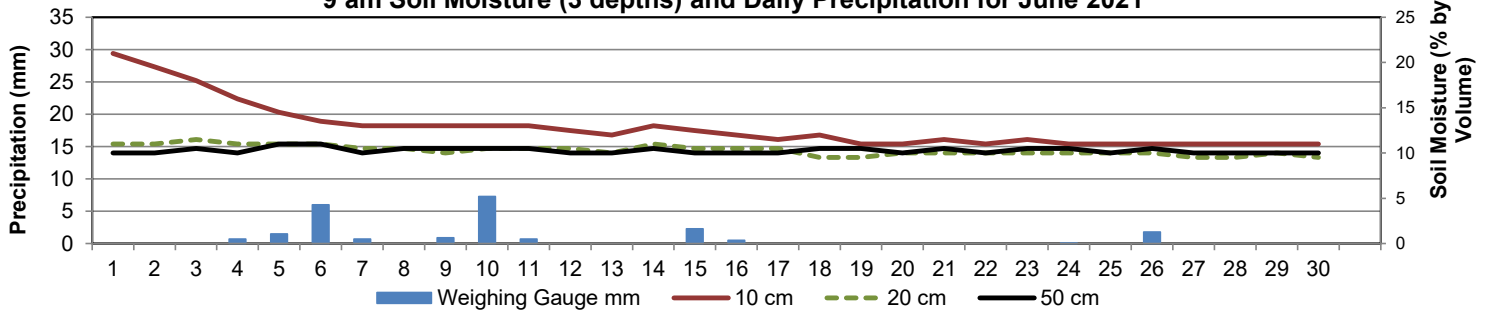
Day	2 meter Wind Speed			Soil Moisture at 0900 hrs (rounded to the 0.5%)														
	Daily Average	Max ½ hr Avg	½ hr Extreme Max	10 cm	20 cm	50 cm												
	km/h	km/h	km/h	% by volume (soil type is Loam (45.5% Sand, 41.1% Silt, 13.3% Clay))														
1	6.0	11.9	25.2	21.0	11.0	10.0												
2	10.0	16.5	28.7	19.5	11.0	10.0												
3	5.0	14.2	28.7	18.0	11.5	10.5												
4	10.0	15.1	29.3	16.0	11.0	10.0												
5	13.0	30.9	46.5	14.5	11.0	11.0												
6	13.0	22.0	36.2	13.5	11.0	11.0												
7	10.0	22.5	37.3	13.0	10.5	10.0												
8	6.0	13.5	23.5	13.0	10.5	10.5												
9	12.0	19.2	30.4	13.0	10.0	10.5												
10	16.0	25.1	41.4	13.0	10.5	10.5												
11	19.0	28.6	48.8	13.0	10.5	10.5												
12	12.0	19.4	31.0	12.5	10.5	10.0												
13	8.0	11.3	36.2	12.0	10.0	10.0												
14	15.0	22.1	39.6	13.0	11.0	10.5												
15	18.0	24.6	47.7	12.5	10.5	10.0												
16	21.0	31.8	52.3	12.0	10.5	10.0												
17	19.0	35.7	53.5	11.5	10.5	10.0												
18	11.0	20.1	31.6	12.0	9.5	10.5												
19	9.0	19.1	32.7	11.0	9.5	10.5												
20	12.0	21.1	35.0	11.0	10.0	10.0												
21	10.0	21.7	39.6	11.5	10.0	10.5												
22	10.0	16.8	29.8	11.0	10.0	10.0												
23	14.0	22.9	37.9	11.5	10.0	10.5												
24	7.0	12.3	24.1	11.0	10.0	10.5												
25	12.0	21.6	35.6	11.0	10.0	10.0												
26	8.0	14.6	45.4	11.0	10.0	10.5												
27	9.0	15.9	27.5	11.0	9.5	10.0												
28	6.0	11.1	24.1	11.0	9.5	10.0												
29	7.0	9.4	17.7	11.0	10.0	10.0												
30	8.0	15.6	25.8	11.0	9.5	10.0												
Total																		
Mean				13	10	10												
Extreme	21.0	35.7	53.5	21.0	11.5	11.0												
Date	16	17	17															

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

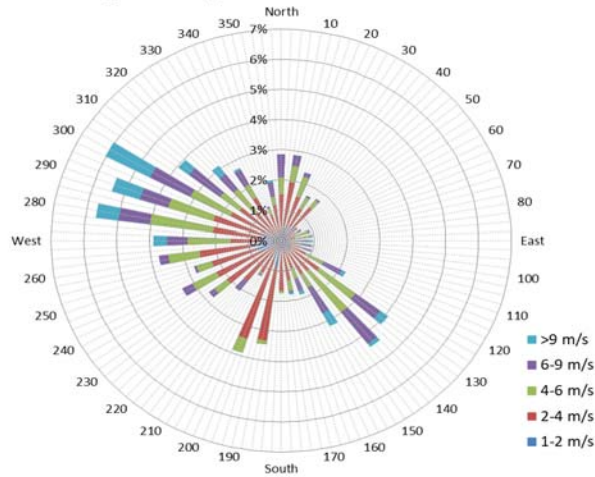
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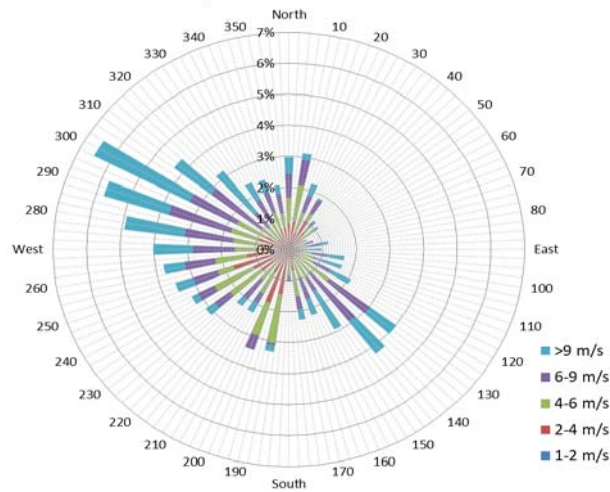
9 am Soil Moisture (3 depths) and Daily Precipitation for June 2021



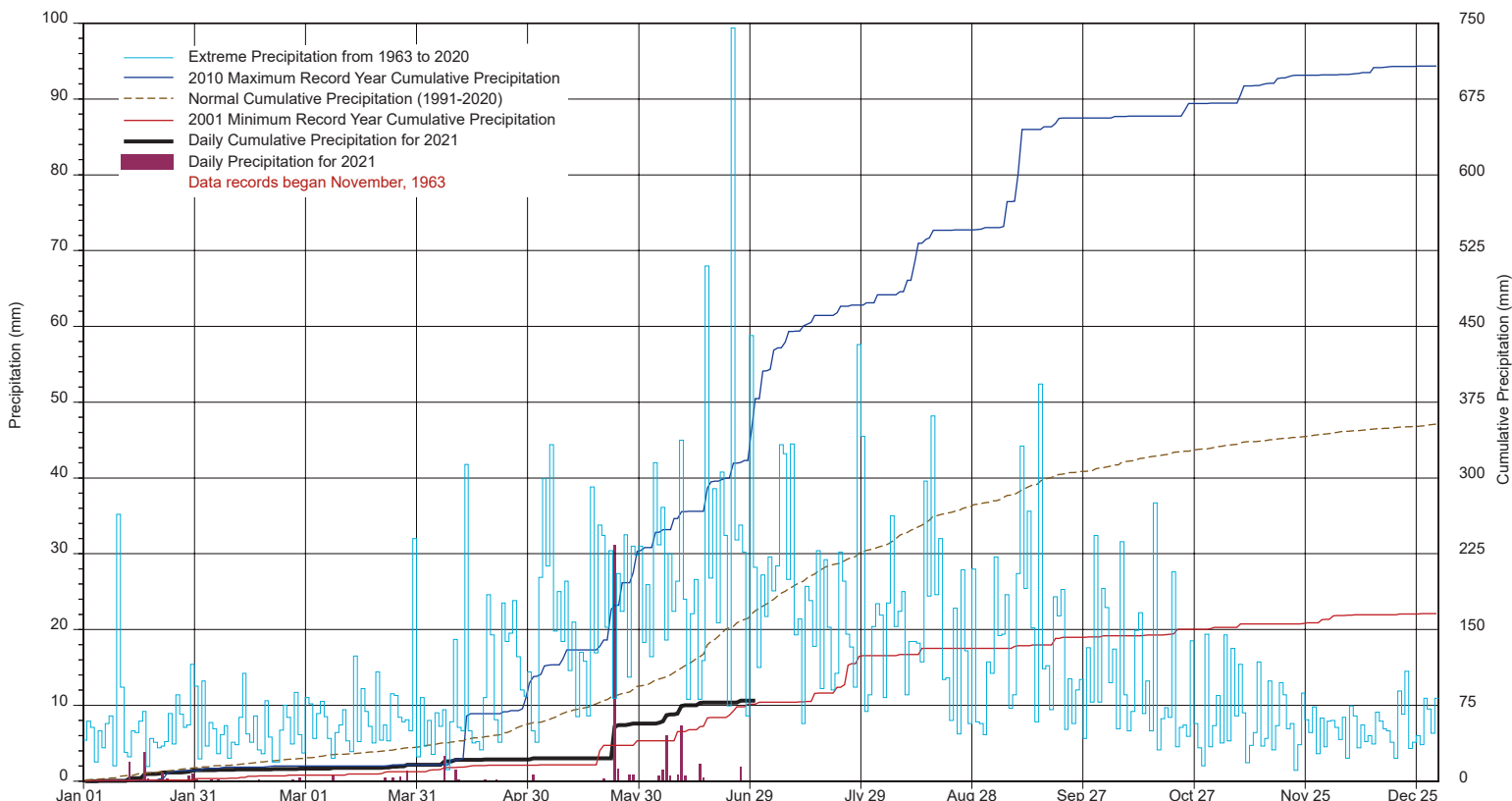
10 minute Average Wind Speed and Direction Saskatoon June 2021



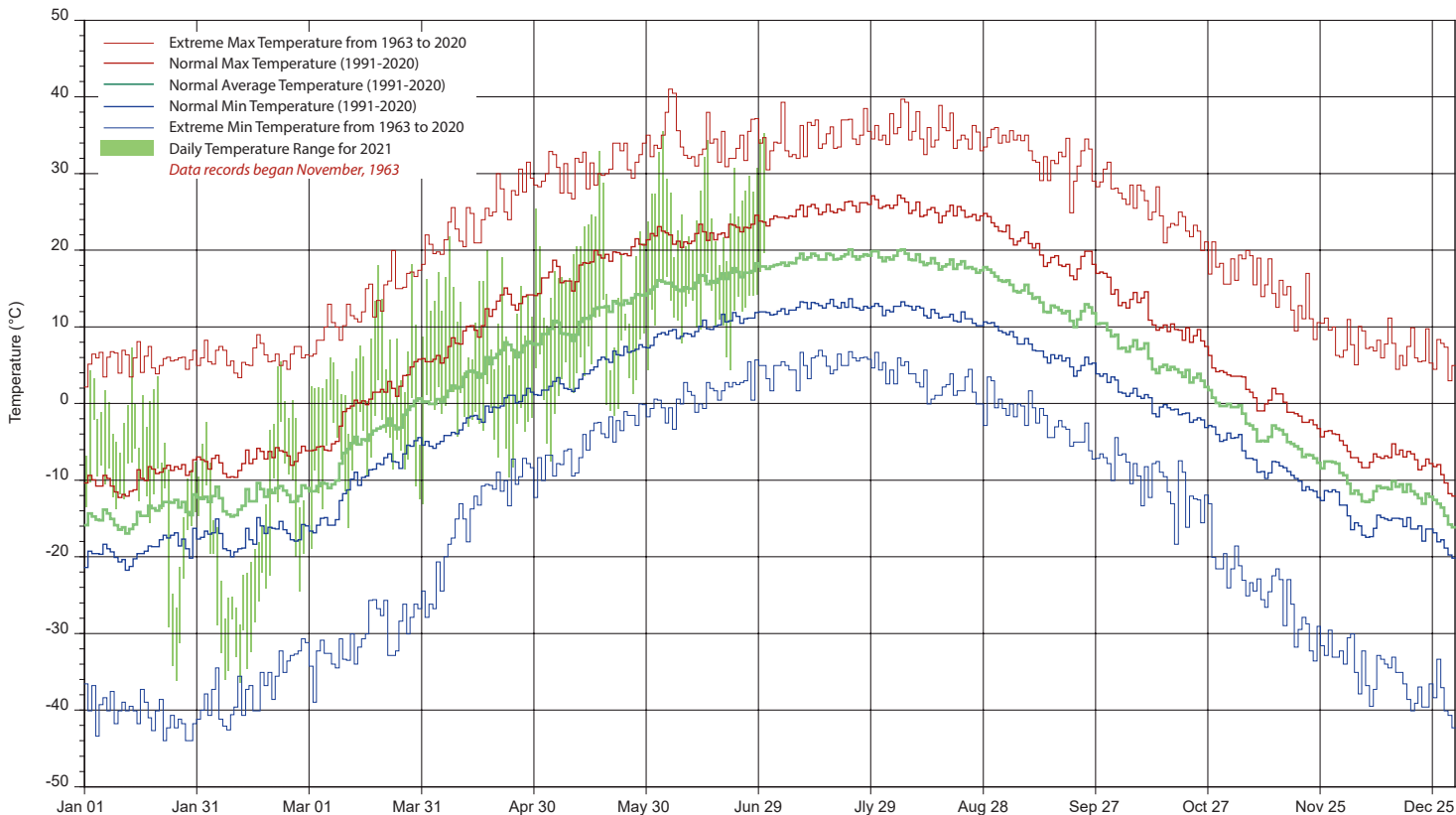
1/2 hr Maximum Wind Speed and Direction Saskatoon June 2021



# SASKATCHEWAN RESEARCH COUNCIL SASKATOON CLIMATE REFERENCE STATION 2021 PRECIPITATION AND NORMALS



## 2021 TEMPERATURES AND NORMALS



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