



SRC CLIMATE REFERENCE STATION DAILY DATA REPORT

SASKATOON STATION 4057180

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

Preliminary JUNE 2024

Day	Temperature						Degree-days			Precipitation			Relative Humidity		Station Pressure (sea level)	
	Max	Normal Max	Min	Normal Min	Mean	Normal Mean	Growing	Heating	Cooling	Geonor all-season ppt 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	23.3	21.9	8.4	8.7	15.9	15.3	10.9	2.1	0.0	0.0	0.0		61	15	1007	1003
2	21.5	23.1	5.7	9.1	13.6	16.1	8.6	4.4	0.0	0.0	0.0		75	25	1006	1004
3	19.3	22.5	6.8	9.3	13.1	15.9	8.1	4.9	0.0	0.0	0.0		84	45	1004	993
4	18.3	22.3	12.4	9.0	15.4	15.7	10.4	2.6	0.0	6.1	6.1	showers	92	62	993	991
5	15.2	22.0	10.1	9.5	12.7	15.8	7.7	5.3	0.0	2.7	2.8	showers	85	61	1008	993
6	21.4	20.8	8.9	9.7	15.2	15.3	10.2	2.8	0.0	0.0	0.0		82	17	1010	1008
7	22.5	21.2	8.8	8.5	15.7	14.9	10.7	2.3	0.0	0.0	0.0		75	17	1011	1007
8	13.1	20.4	5.6	8.8	9.4	14.7	4.4	8.6	0.0	0.9	0.5	showers	83	47	1021	1011
9	19.8	21.1	6.5	9.2	13.2	15.2	8.2	4.8	0.0	0.0	0.0		89	34	1024	1018
10	13.5	20.9	10.7	9.1	12.1	15.0	7.1	5.9	0.0	24.5	24.4	rain	91	50	1018	1006
11	24.1	21.2	7.9	8.8	16.0	15.0	11.0	2.0	0.0	0.0	0.0		93	41	1007	1001
12	18.6	22.2	11.8	9.4	15.2	15.8	10.2	2.8	0.0	2.3	2.0	showers	88	54	1007	1001
13	20.7	23.4	11.6	10.1	16.2	16.8	11.2	1.8	0.0	0.7	0.8	showers	91	49	1015	1007
14	25.1	22.4	8.4	10.9	16.8	16.7	11.8	1.2	0.0	0.0	0.0		91	31	1015	1004
15	23.6	21.3	10.8	9.8	17.2	15.6	12.2	0.8	0.0	6.9	6.6	showers	88	35	1004	998
16	16.3	22.3	9.5	9.7	12.9	16.0	7.9	5.1	0.0	12.2	12.2	rain	91	41	1007	991
17	16.7	21.4	4.6	10.1	10.7	15.8	5.7	7.3	0.0	0.0	0.0		91	33	1008	992
18	14.6	22.1	3.6	10.3	9.1	16.3	4.1	8.9	0.0	0.0	0.0		81	35	1018	1008
19	18.5	22.3	5.7	11.7	12.1	17.0	7.1	5.9	0.0	0.0	0.0		82	34	1021	1018
20	22.1	21.7	5.6	10.7	13.9	16.3	8.9	4.1	0.0	0.0	0.0		83	30	1023	1021
21	24.7	23.4	10.7	10.8	17.7	17.1	12.7	0.3	0.0	1.4	1.3	t-storm	69	37	1021	1014
22	22.7	23.3	13.4	11.9	18.1	17.7	13.1	0.0	0.1	1.9	2.0	t-storm	89	50	1014	1012
23	29.1	23.0	11.2	11.4	20.2	17.2	15.2	0.0	2.2	0.0	0.0		87	35	1012	998
24	25.2	22.4	14.4	10.5	19.8	16.5	14.8	0.0	1.8	1.8	1.8	t-storm	89	25	1007	997
25	16.3	23.0	10.3	11.1	13.3	17.1	8.3	4.7	0.0	16.8	16.5	rain	91	55	1020	1007
26	22.9	22.9	9.4	11.2	16.2	17.1	11.2	1.8	0.0	0.0	0.0		91	38	1020	1013
27	21.2	23.4	13.4	11.2	17.3	17.3	12.3	0.7	0.0	9.8	9.4	showers	87	49	1013	1002
28	16.8	24.6	10.3	11.9	13.6	18.3	8.6	4.4	0.0	22.1	21.8	rain	90	53	1019	1002
29	21.9	23.8	9.6	12.0	15.8	17.9	10.8	2.2	0.0	0.0	0.0		85	37	1022	1019
30	23.0	23.7	9.5	12.0	16.3	17.9	11.3	1.7	0.0	0.9	0.8	showers	81	41	1022	1012
Total							294.7	99.4	4.1	111.0	109.0		Extreme / Date	Extreme / Date	Extreme / Date	Extreme / Date
Avg	20.4	22.3	9.2	10.2	14.8	16.3	1991-2020 Normal			73.9	1991-2020 Normal					
Extreme Date	29.1		3.6				339.1	74.2	22.9	246.4	Year to date 2024 Cumulative		93	15	1024	991
	23		18							168.3	Year to date Cumulative Normal		11	1	9	4

Note: Red numbers indicate manual calculation; Red cell indicate data not available
 Precipitation is measured precipitation. It has not been corrected for wind speed.

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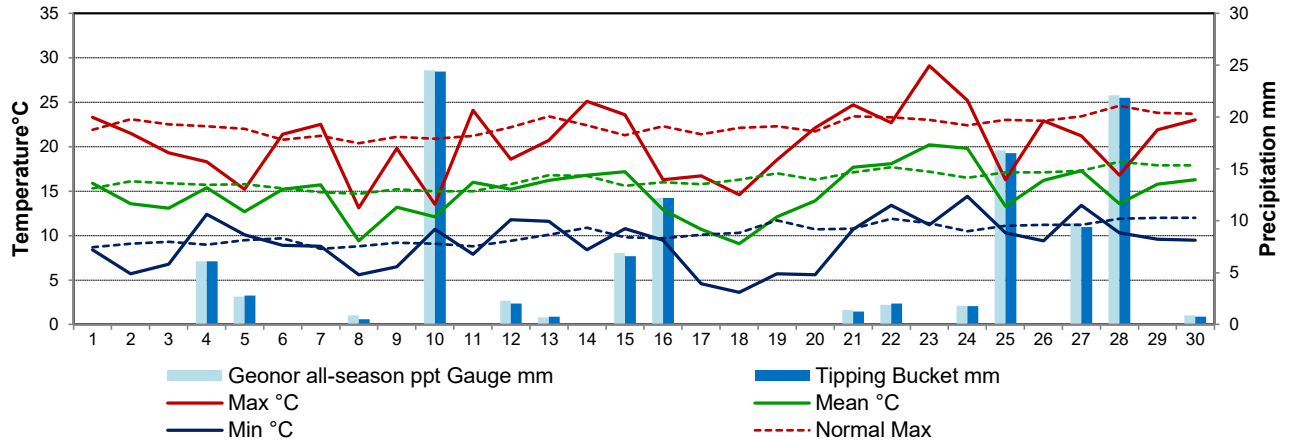


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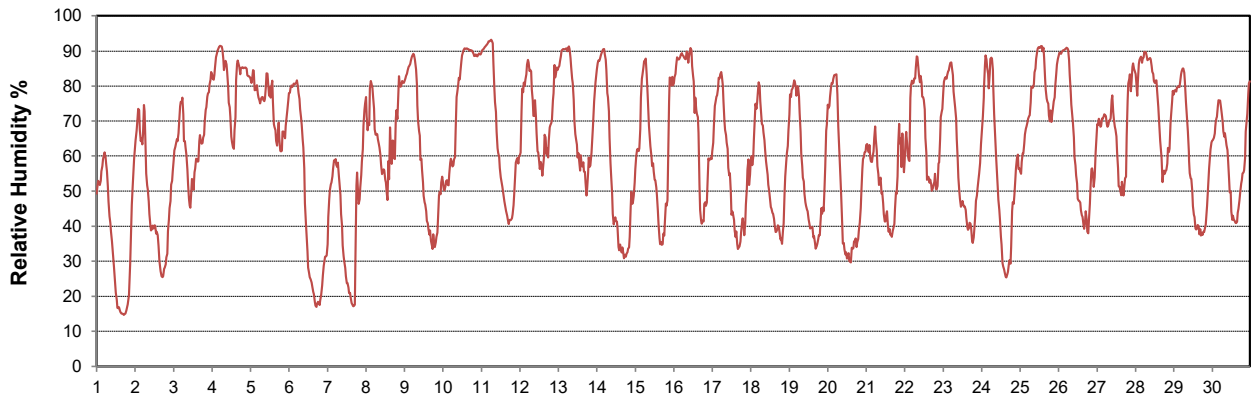
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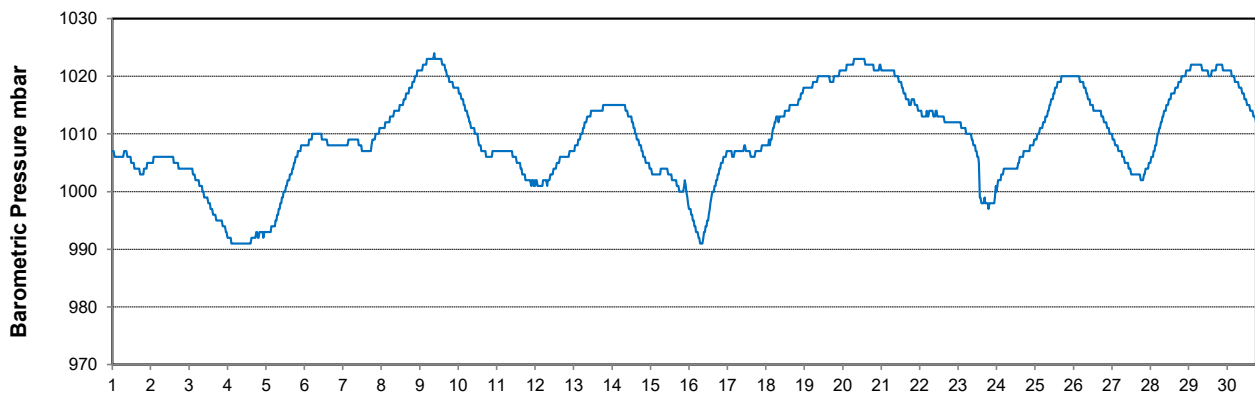
Temperature and Precipitation for June 2024



Relative Humidity for June 2024



Barometric Pressure Corrected to Sea Level for June 2024





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SASKATOON STATION 4057180

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

Preliminary **JUNE 2024**

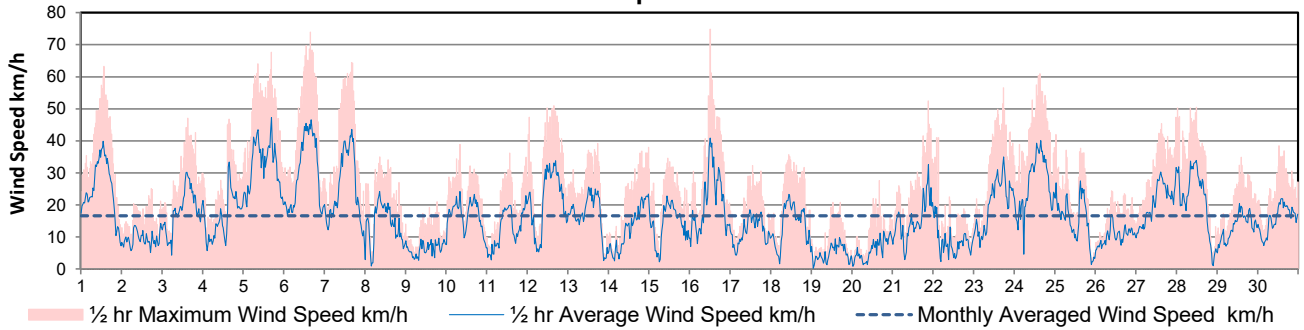
Day	Wind Gust			Wind Speed (10 meters) Daily Average	Soil Temperatures at 0900hrs (rounded to the nearest 0.5C)								Radiation				
	Max	Direction	Time		Surface	5 cm	10 cm	20 cm	50 cm	100 cm	150 cm	300 cm	Bright Sunshine	Possible	% Possible	Global	Diffuse
	km/h				°C	°C	°C	°C	°C	°C	°C	°C	hours	hours		MJ/m ²	MJ/m ²
1	63.2	WNW	13:59	18.2	15.5	12.0	12.5	13.0	12.0	9.0	7.5	6.0	14.8	16.5	89.9	28.7	5.6
2	25.1	SE	17:54	11.9	13.5	13.0	13.0	13.5	12.0	9.0	7.5	6.0	8.4	16.5	50.9	18.8	9.1
3	47.1	SE	15:04	18.7	15.5	13.0	13.5	14.0	12.0	9.0	7.5	6.0	3.1	16.5	18.8	13.7	11.5
4	46.8	WNW	15:54	18.8	13.5	15.0	15.0	14.0	12.5	9.0	7.5	6.0	2.3	16.5	13.9	12.5	9.2
5	67.7	WNW	16:46	18.6	12.0	13.0	13.5	14.0	12.5	9.5	8.0	6.0	1.5	16.6	9.1	10.6	8.5
6	73.9	WNW	15:52	18.6	14.0	11.5	12.0	12.5	12.0	9.5	8.0	6.0	15.5	16.6	93.4	29.9	4.6
7	64.5	NW	16:15	9.7	15.5	12.0	12.5	13.0	12.0	9.5	8.0	6.0	10.4	16.6	62.6	24.1	9.2
8	35.0	NW	8:42	7.6	8.0	12.5	13.0	13.5	12.0	9.5	8.0	6.0	1.3	16.6	7.8	12.5	10.0
9	21.0	SSE	18:39	7.4	11.0	11.5	12.0	12.5	12.0	9.5	8.0	6.5	9.6	16.7	57.6	22.2	9.5
10	38.9	SE	8:01	19.2	11.0	13.5	13.5	13.5	12.0	9.5	8.0	6.5	0.0	16.7	0.0	3.5	3.1
11	36.2	WNW	13:58	11.2	15.0	12.0	12.0	12.5	12.0	9.5	8.0	6.5	13.7	16.7	82.1	29.1	4.3
12	50.9	WNW	17:38	20.7	17.0	15.5	15.5	15.0	12.5	9.5	8.5	6.5	4.2	16.7	25.1	16.4	9.2
13	39.2	NW	15:49	11.8	15.0	14.5	14.5	14.5	13.0	9.5	8.5	6.5	9.1	16.7	54.4	21.3	11.6
14	38.0	SSE	23:37	6.4	18.0	14.5	14.5	14.5	13.0	10.0	8.5	6.5	9.4	16.7	56.2	19.5	11.0
15	34.6	NNW	11:11	28.2	17.5	15.0	15.5	15.5	13.5	10.0	8.5	6.5	10.2	16.7	60.9	24.1	7.1
16	74.9	NW	12:22	19.0	10.0	15.5	16.5	16.0	14.0	10.0	8.5	6.5	2.6	16.8	15.5	10.4	8.0
17	32.3	NW	13:29	32.5	10.5	12.0	13.0	13.5	13.5	10.0	8.5	6.5	8.4	16.8	50.1	20.8	14.2
18	35.7	N	10:51	28.1	9.0	11.5	12.5	13.5	13.0	10.5	9.0	7.0	12.7	16.8	75.8	25.1	9.3
19	20.8	SW	12:56	17.5	10.5	12.5	13.0	13.5	13.0	10.5	9.0	7.0	8.8	16.8	52.5	22.5	9.8
20	27.6	SSW	16:22	13.4	15.0	12.5	13.5	14.0	13.0	10.5	9.0	7.0	12.7	16.8	75.8	24.6	6.8
21	52.4	SSE	21:11	17.0	18.5	15.0	15.0	15.0	13.0	10.5	9.0	7.0	9.6	16.8	57.3	22.6	7.6
22	41.0	SW	3:02	20.6	15.5	16.0	16.5	16.0	13.5	10.5	9.0	7.0	6.4	16.8	38.2	17.9	9.2
23	56.6	SSE	17:40	9.8	18.5	16.0	16.0	16.0	14.0	10.5	9.0	7.0	12.8	16.8	76.4	25.1	7.2
24	60.9	W	15:15	16.4	18.0	17.5	17.5	17.5	14.5	10.5	9.0	7.0	12.7	16.8	75.8	28.2	4.7
25	42.0	W	0:33	13.5	14.5	16.5	17.0	17.0	14.5	11.0	9.0	7.0	2.2	16.7	13.1	6.6	5.5
26	24.4	SW	9:49	17.2	16.0	14.0	14.5	15.0	14.0	11.0	9.5	7.0	12.3	16.7	73.5	25.5	8.5
27	47.4	E	23:56	13.0	16.5	16.5	17.0	16.5	14.0	11.0	9.5	7.5	0.9	16.7	5.4	11.5	9.3
28	50.4	NE	11:39	24.5	10.0	14.5	15.5	16.0	14.5	11.0	9.5	7.5	5.7	16.7	34.1	13.3	7.4
29	34.8	SSW	14:11	16.7	15.0	14.0	14.5	14.5	14.0	11.5	9.5	7.5	11.0	16.7	65.9	25.3	8.9
30	38.4	SSE	12:57	10.9	15.5	14.5	15.0	16.0	14.0	11.5	9.5	7.5	9.7	16.7	58.2	22.5	7.8
Total													242.0	500.4	48.4	588.8	247.7
Mean				16.6	14.2	13.9	14.3	14.5	13.1	10.1	8.6	6.7	1991-2020 Normal				
Extreme	74.9	NW	12:22		1971- 2000 Normal for Soil Temperatures								253	500.2	50.6	612.6	218.3
Date	16				15.3	15.7	16.3	14.0	10.4	8.3	5.4	No. of Bright Sunshine days = 29					

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

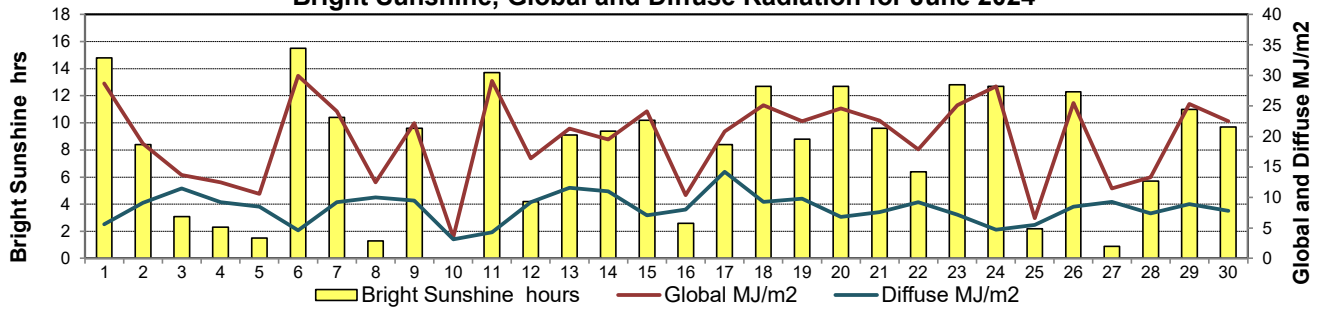
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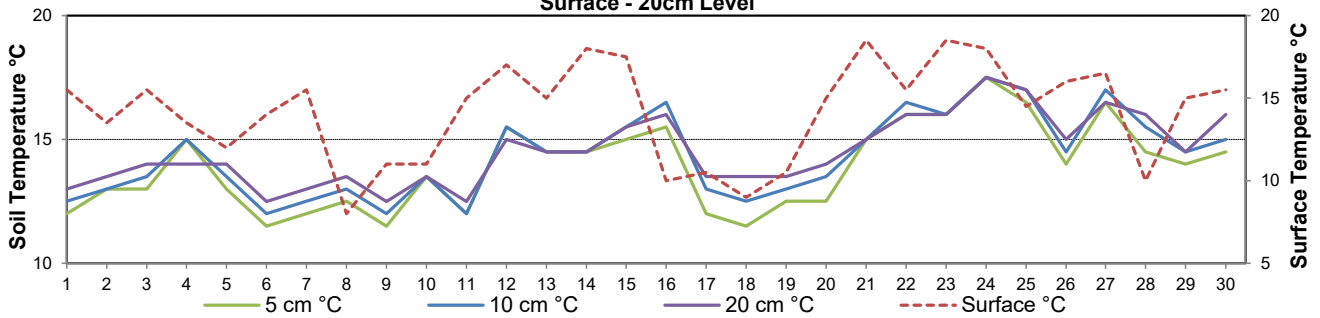
10 meter Wind Speed for June 2024



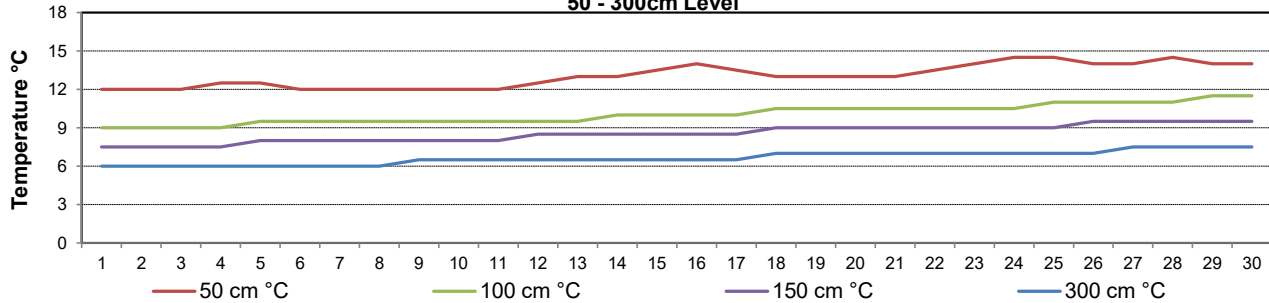
Bright Sunshine, Global and Diffuse Radiation for June 2024



**Soil Temperatures for June 2024
Surface - 20cm Level**



**Soil Temperatures for June 2024
50 - 300cm Level**





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

Preliminary **JUNE 2024**

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 ^S 1986	109.7 ^{SW}	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	Lowest Mean Daily	18	9.1	11.1	1973	SE	Eby	1901-1941	Normal	30 year average beginning with the decade
						US	Univ. of Sask.	1915-1964		
Growing Degree-Days	Lowest Daily	18	4.1	6.1	1973	S	Saskatoon	1941-1942	SOG	Depth of snow-on-the-ground in cm
						SA	Saskatoon A	1942 -	na	not available
Heating Degree-Days	Highest Daily	18	8.9	7.5	1981	NRC	Nat. Res. Council	1952-1966	Degree-days	
						SRC	Sask. Res. Council	1963-	Tm	Mean Temperature
Precipitation	Highest Daily Maximum	28	22.1	8.6	2005	SWT	S'toon Water Treatment Plant	1974 -	Growing	(Tm-5°C); if Tm ≤ 5°C then GDD = 0
						SC	S'toon Central Ave	1974-1989	Heating	(18°C-Tm); if Tm ≤ 18°C then HDD = 0
						S1	Saskatoon 1	1976-1978	Cooling	(Tm-18°C); if Tm ≥ 18°C then CDD = 0
						S2	Saskatoon 2	1977-1990	Extreme Cooling	(Tm-24°C); if Tm ≥ 24°C then CDD = 0
						K	S'toon Kernen Farm	1993-2004		
						KCS	S'toon Kernen Farm CS	1996-		
RCS	Environment Canada	2008-								
SF	Sutherland Forestry	1943-1970								

-last time there were six consecutive months with above normal precipitation was in 2012 (March to August inclusive)
 -more precipitation in the January to June 2024 period (246.4mm) than all of 2023 (244.6mm) at CRS Saskatoon

- nine days with peak wind speeds over 50km/h
- six days with peak wind speeds over 60km/h
- two days with wind speeds over 70km/hr

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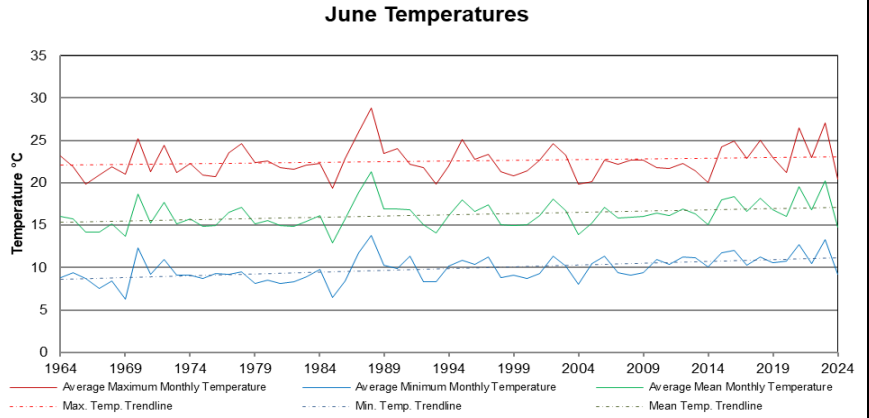
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SASKATOON STATION 4057180

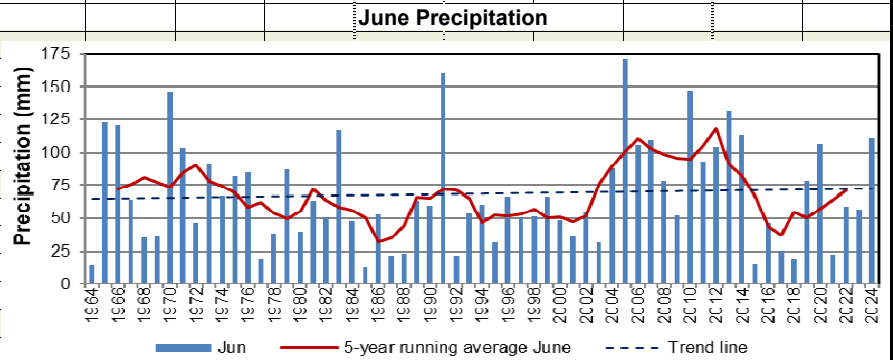
52°09' N 106°36' W 497 m asl Estab. 1963

Preliminary June 2024

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	18.0	28.4	46.5	6.0	10.0	9.5
2	7.0	10.7	22.4	5.5	10.0	9.5
3	12.0	21.4	33.9	5.0	10.0	9.5
4	12.0	24.0	36.8	5.0	10.0	9.5
5	23.0	34.7	52.9	5.0	9.5	10.0
6	22.0	34.2	56.3	5.5	9.5	9.5
7	18.0	32.0	54.6	6.0	10.0	9.5
8	10.0	17.8	29.8	5.5	9.5	10.0
9	4.0	7.9	17.7	4.5	9.5	9.5
10	12.0	17.1	29.8	5.0	9.0	9.5
11	9.0	15.8	26.4	23.0	9.5	9.5
12	15.0	24.3	40.2	19.5	9.5	9.5
13	12.0	19.0	32.7	17.5	10.0	10.0
14	8.0	15.4	30.4	15.0	9.5	9.5
15	10.0	17.4	26.4	13.5	9.5	10.0
16	14.0	29.4	54.0	19.5	10.0	10.0
17	7.0	13.6	23.5	22.5	9.0	10.0
18	10.0	17.5	28.1	19.0	9.0	10.0
19	3.0	8.5	19.5	17.0	9.5	9.5
20	4.0	9.7	21.8	15.0	9.5	9.5
21	10.0	19.9	37.9	14.0	9.0	10.0
22	5.0	12.2	31.6	12.5	10.0	10.0
23	12.0	20.5	39.1	12.0	10.0	10.5
24	18.0	27.9	46.5	11.0	10.0	10.5
25	10.0	18.7	29.8	10.0	10.0	10.0
26	6.0	13.8	21.8	22.5	9.5	10.5
27	15.0	21.9	35.0	18.5	10.0	10.0
28	15.0	25.0	39.1	30.5	18.5	10.0
29	9.0	16.1	28.7	23.0	22.0	10.5
30	10.0	15.3	28.7	19.5	21.5	10.5
Total						
Mean				14	11	10
Extreme	23.0	34.7	56.3	30.5	22.0	10.5
Date	5	5	6			



- maximum temperature was seventh lowest
 - minimum temperature was 25th lowest
 - average temperature was seventh lowest



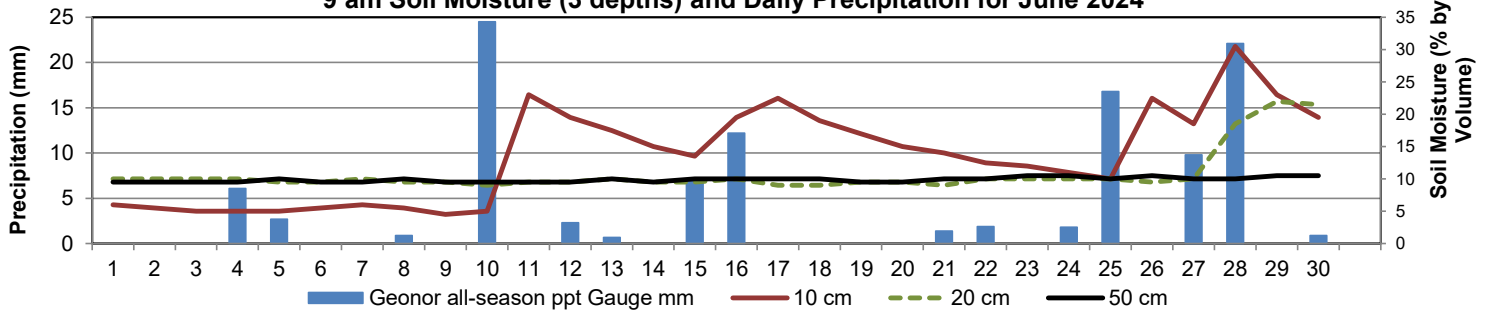
-June 2024 was the 10th wettest June in the last 61 years

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

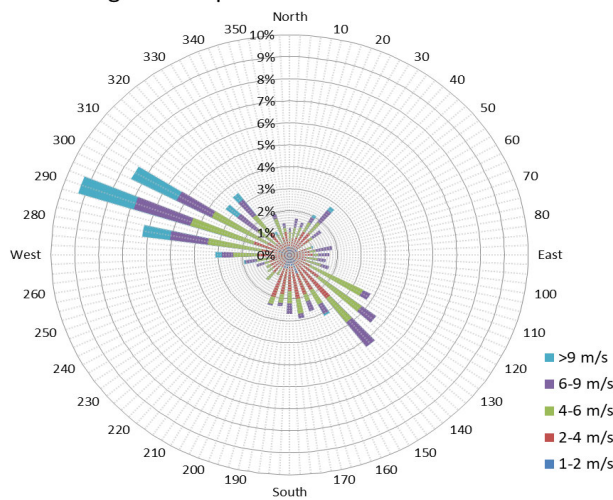
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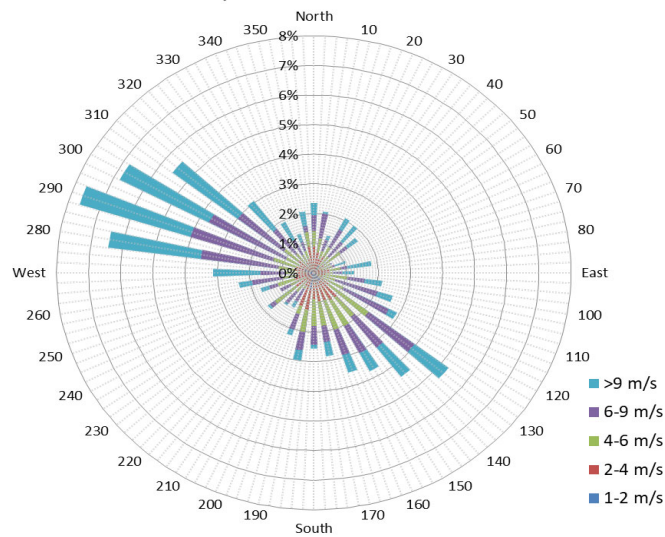
9 am Soil Moisture (3 depths) and Daily Precipitation for June 2024



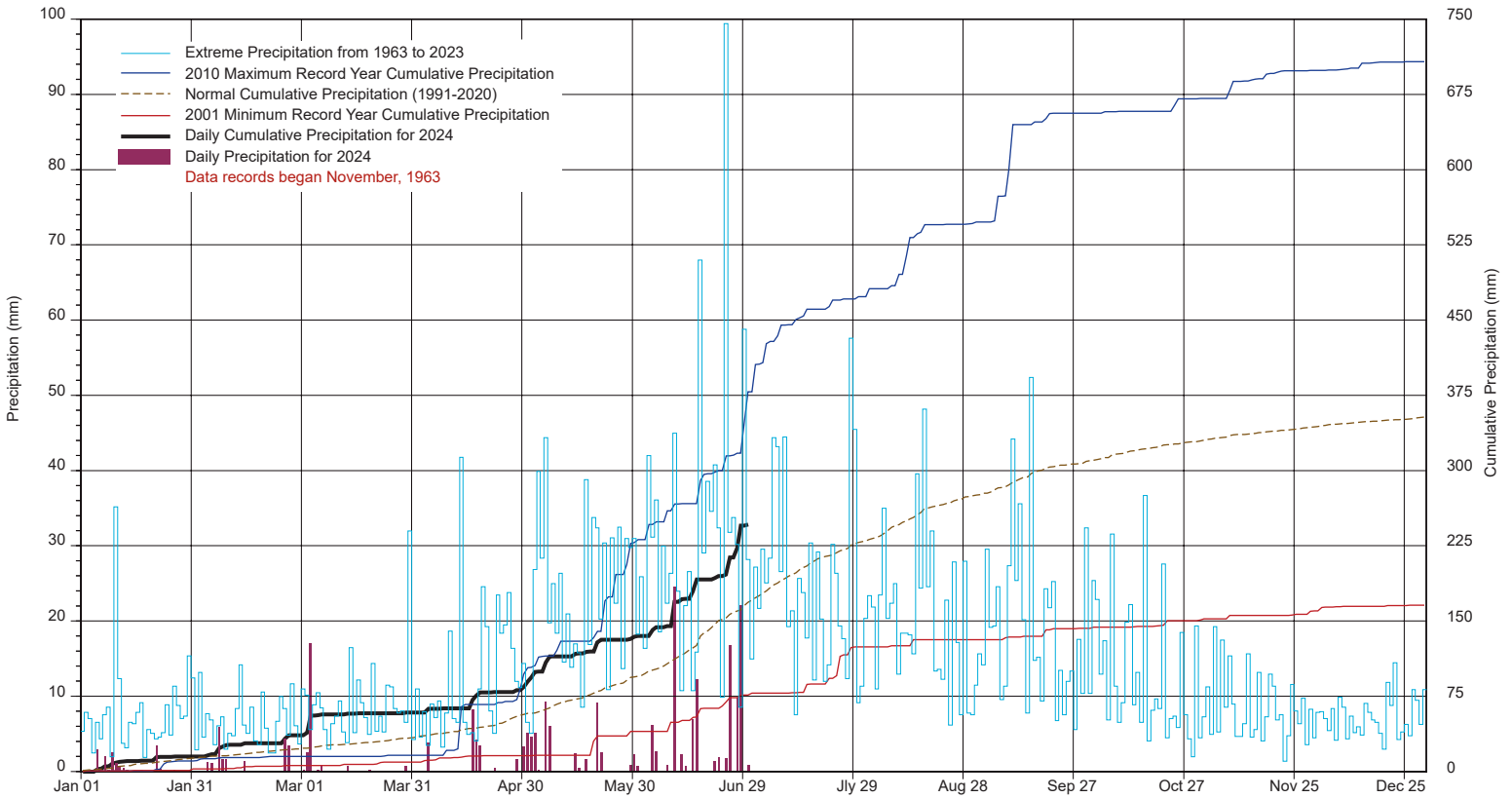
10 minute Average Wind Speed and Direction Saskatoon June 2024



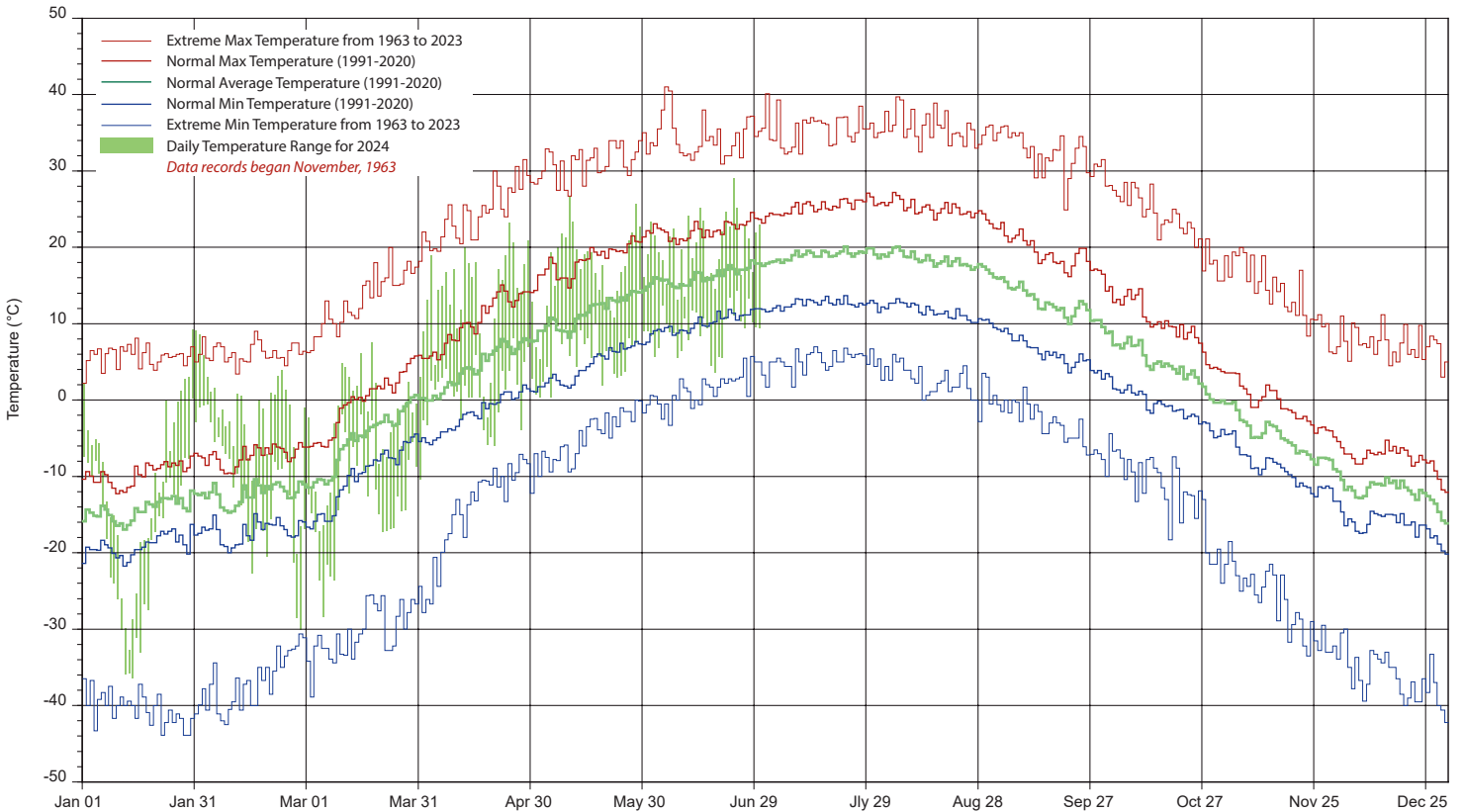
1/2 hr Maximum Wind Speed and Direction Saskatoon June 2024



SASKATCHEWAN RESEARCH COUNCIL SASKATOON CLIMATE REFERENCE STATION 2024 PRECIPITATION AND NORMALS



2024 TEMPERATURES AND NORMALS



SRC proudly recongnizes the following CRS supporters:

