



SRC CLIMATE REFERENCE STATION DAILY DATA REPORT

SASKATOON STATION 4057180

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

Preliminary **MAY 2023**

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	20.5	14.4	3.4	1.1	12.0	7.8	7.0	6.0	0.0	0.0	0.0		58	17	1017	1014
2	27.6	16.4	7.5	1.8	17.6	9.1	12.6	0.4	0.0	0.0	0.0		59	10	1014	1008
3	26.3	16.4	5.1	1.8	15.7	9.1	10.7	2.3	0.0	0.0	0.0		86	14	1012	1010
4	26.8	17.2	7.5	2.3	17.2	9.8	12.2	0.8	0.0	0.0	0.0		59	14	1015	1011
5	18.6	18.7	7.3	2.9	13.0	10.8	8.0	5.0	0.0	0.0	0.0		68	28	1018	1015
6	17.5	17.9	7.3	3.4	12.4	10.6	7.4	5.6	0.0	0.0	0.0		62	28	1018	1016
7	19.1	15.8	8.5	2.6	13.8	9.2	8.8	4.2	0.0	0.0	0.0		57	30	1017	1015
8	20.5	16.0	10.3	2.0	15.4	9.1	10.4	2.6	0.0	0.0	0.0		63	30	1016	1013
9	21.3	16.0	4.6	1.9	13.0	9.0	8.0	5.0	0.0	0.0	0.0		88	28	1015	1012
10	23.4	14.7	6.0	1.6	14.7	8.2	9.7	3.3	0.0	0.0	0.0		81	24	1016	1013
11	23.2	15.9	5.9	2.0	14.6	9.0	9.6	3.4	0.0	0.0	0.0		83	24	1020	1016
12	20.7	18.1	12.8	3.2	16.8	10.7	11.8	1.2	0.0	0.0	0.0		74	43	1029	1020
13	26.1	18.4	7.2	3.9	16.7	11.2	11.7	1.3	0.0	0.0	0.0		90	22	1033	1029
14	27.6	18.3	9.5	3.9	18.6	11.1	13.6	0.0	0.6	0.0	0.0		64	15	1034	1028
15	28.8	18.5	13.0	4.4	20.9	11.5	15.9	0.0	2.9	0.0	0.0		61	19	1028	1016
16	31.7	20.0	11.1	4.8	21.4	12.4	16.4	0.0	3.4	0.0	0.0	smoke pm	56	18	1016	1009
17	14.3	19.4	7.1	5.7	10.7	12.6	5.7	7.3	0.0	0.0	0.0	smoke	69	18	1018	1009
18	17.8	19.0	3.7	6.1	10.8	12.6	5.8	7.2	0.0	0.0	0.0	smoke	72	18	1022	1018
19	27.0	19.5	4.2	5.8	15.6	12.7	10.6	2.4	0.0	0.0	0.0	smoke	54	15	1022	1012
20	24.7	18.6	12.5	5.4	18.6	12.0	13.6	0.0	0.6	0.0	0.0	smoke	60	22	1019	1012
21	23.4	19.8	8.4	6.9	15.9	13.4	10.9	2.1	0.0	0.0	0.0	smoke	77	38	1020	1012
22	30.2	19.7	12.2	6.4	21.2	13.1	16.2	0.0	3.2	2.6	2.5	showers/tstorm	81	23	1012	1006
23	21.8	19.5	10.2	6.3	16.0	12.9	11.0	2.0	0.0	0.0	0.0		79	42	1017	1010
24	18.4	19.6	8.2	7.5	13.3	13.5	8.3	4.7	0.0	24.9	24.1	t-storm	92	56	1018	1011
25	14.4	19.3	12.4	6.7	13.4	13.1	8.4	4.6	0.0	6.0	5.8	rain	93	85	1015	1010
26	20.8	20.5	12.2	6.9	16.5	13.8	11.5	1.5	0.0	0.0	0.0		88	49	1015	1013
27	20.5	21.5	9.9	7.1	15.2	14.3	10.2	2.8	0.0	0.4	0.5	light rain	92	52	1015	1010
28	22.8	20.8	13.5	7.7	18.2	14.2	13.2	0.0	0.2	0.8	0.8	light rain	92	56	1011	1005
29	28.1	20.7	12.5	7.4	20.3	14.1	15.3	0.0	2.3	0.0	0.0	smoke	92	18	1006	1004
30	29.6	21.4	11.7	7.3	20.7	14.4	15.7	0.0	2.7	0.0	0.0	smoke	81	21	1008	1005
31	31.8	22.2	15.2	7.6	23.5	14.9	18.5	0.0	5.5	0.0	0.0		75	21	1008	1006
Total							348.7	75.7	21.4	34.7	33.7		Extreme /	Extreme /	Extreme /	Extreme /
Avg	23.4	18.5	9.1	4.7	16.2	11.6	1991-2020 Normal			37.6	1991-2020 Normal		Date	Date	Date	Date
Extreme	31.8		3.4				211.0	204.0	6.1	65.3	Year to date 2023 Cumulative		93	10	1034	1004
Date	31		1							94.4	Year to date Cumulative Normal		25	2	14	29

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

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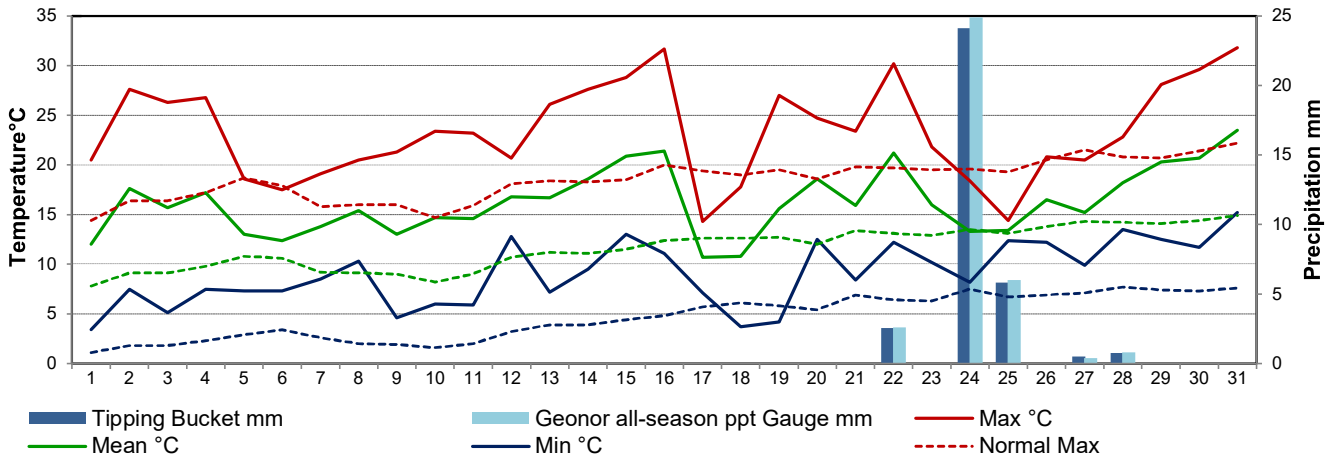


Agriculture and Agri-Food Canada

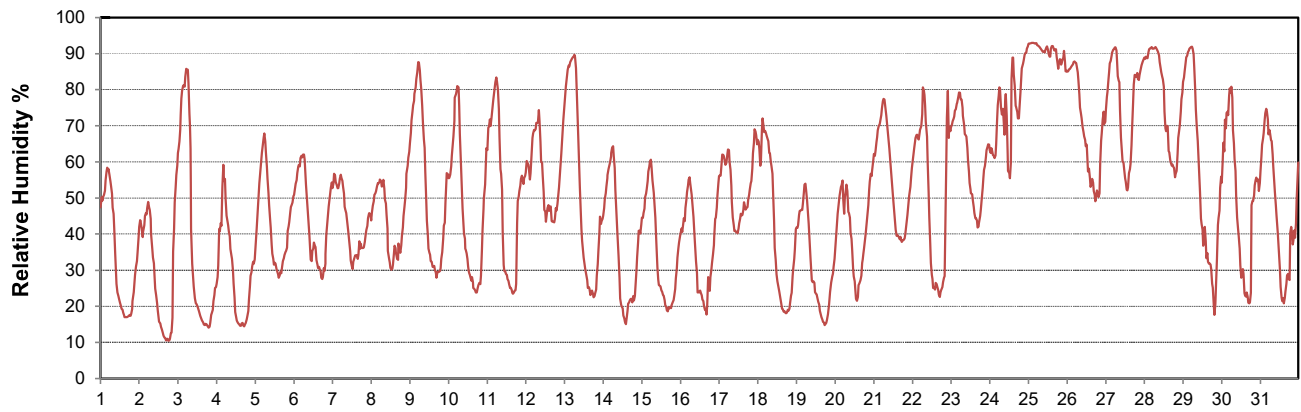
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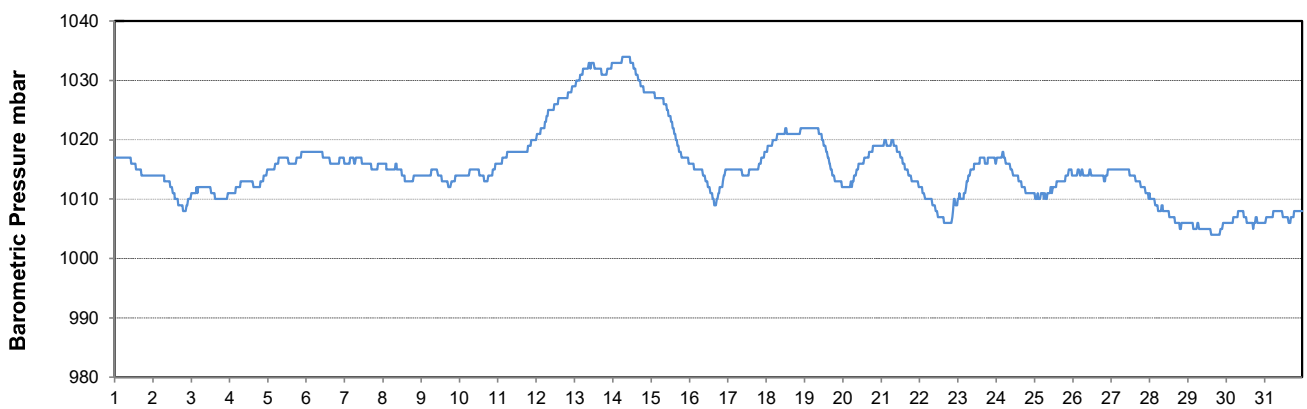
Temperature and Precipitation for May 2023



Relative Humidity for May 2023



Barometric Pressure Corrected to Sea Level for May 2023





SRC CLIMATE REFERENCE STATION DAILY DATA REPORT

SASKATOON STATION 4057180

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

Preliminary **MAY 2023**

Day	10 m tower Wind Gust			Wind Speed (10 meters)	Soil Temperatures at 0900hrs (rounded to the nearest 0.5C)								Radiation				
	Max	Direction	Time	Daily Average	Surface	5 cm	10 cm	20 cm	50 cm	100 cm	150 cm	300 cm	Bright Sunshine	Possible	% Possible	Global	Diffuse
	km/h			km/h	°C	°C	°C	°C	°C	°C	°C	°C	hours	hours		MJ/m ²	MJ/m ²
1	43.1	SE	14:11	18.8	10.5	7.0	7.5	8.0	6.0	4.5	3.5	4.0	14.3	14.9	95.8	25.7	3.5
2	37.0	SSW	12:23	15.5	13.5	8.5	9.0	9.0	6.5	4.5	4.0	4.0	14.3	15.0	95.4	25.7	3.9
3	33.9	ESE	9:23	15.1	18.0	10.5	10.5	10.5	7.5	5.0	4.0	4.0	14.4	15.1	95.7	26.1	4.1
4	38.6	ESE	12:34	16.5	17.0	11.5	11.5	11.5	8.5	5.0	4.0	4.0	14.5	15.1	96.0	26.2	3.7
5	51.0	E	18:42	26.7	13.5	12.0	12.5	12.5	9.0	5.5	4.5	4.0	11.9	15.2	78.5	22.9	7.0
6	48.6	ENE	16:17	23.3	13.0	11.5	12.0	12.0	9.5	6.0	4.5	4.0	8.0	15.2	52.6	16.2	7.7
7	50.7	SE	13:27	22.7	13.5	11.0	11.5	11.0	9.5	6.0	5.0	4.0	9.8	15.3	64.1	19.7	9.6
8	43.2	ESE	14:29	21.0	14.5	12.0	12.0	12.0	9.5	6.5	5.0	4.0	10.1	15.3	65.9	19.7	11.8
9	27.6	ENE	17:03	9.8	13.0	11.5	12.0	12.0	10.0	6.5	5.0	4.0	12.9	15.4	83.8	23.3	6.9
10	30.9	NNE	20:32	7.9	16.0	12.5	13.0	12.5	10.0	7.0	5.5	4.5	12.1	15.5	78.3	23.0	6.2
11	44.5	S	18:32	9.8	15.5	13.0	13.0	13.0	10.5	7.0	5.5	4.5	6.7	15.5	43.2	15.2	11.5
12	30.3	SE	18:28	10.7	14.5	14.0	14.0	13.5	11.0	7.5	5.5	4.5	4.5	15.6	28.9	13.1	9.4
13	18.6	W	12:58	5.7	15.5	12.5	13.0	13.0	11.0	7.5	6.0	4.5	12.0	15.6	76.9	22.6	8.4
14	33.1	SSW	15:17	11.5	17.5	13.5	14.0	14.0	11.5	8.0	6.0	4.5	14.4	15.7	92.0	25.8	6.4
15	33.8	W	15:14	12.7	21.0	15.0	15.5	15.0	12.0	8.0	6.5	4.5	14.7	15.7	93.6	27.2	4.3
16	54.4	NNE	17:39	16.2	22.0	15.5	16.0	15.5	12.5	8.5	6.5	4.5	11.7	15.8	74.2	24.7	6.3
17	47.6	NNW	9:47	22.1	13.0	15.0	15.5	16.0	13.0	8.5	6.5	5.0	5.2	15.8	32.9	12.9	7.6
18	37.0	NNE	12:20	15.9	7.5	12.5	13.0	14.0	12.5	9.0	7.0	5.0	12.1	15.9	76.3	26.8	4.7
19	46.3	SSW	13:03	16.9	15.0	12.0	13.0	14.0	12.5	9.0	7.0	5.0	13.9	15.9	87.4	27.6	5.5
20	39.6	NE	14:20	13.9	17.0	14.5	15.0	14.5	12.5	9.0	7.0	5.0	8.9	16.0	55.8	15.7	10.3
21	34.2	ESE	2:30	19.0	11.5	13.5	14.5	14.5	12.5	9.0	7.5	5.0	8.6	16.0	53.8	16.3	11.8
22	43.7	E	23:22	17.8	15.0	15.0	15.0	14.5	12.5	9.5	7.5	5.0	8.0	16.1	49.8	19.4	9.9
23	48.8	ESE	23:39	25.5	16.0	15.5	16.0	15.5	13.0	9.5	7.5	5.5	11.0	16.1	68.4	22.7	11.9
24	48.1	ESE	0:02	15.4	10.5	13.5	14.5	15.0	13.0	9.5	7.5	5.5	1.7	16.1	10.5	9.3	7.6
25	36.5	NNE	18:29	18.6	13.0	14.5	15.0	14.5	13.0	9.5	8.0	5.5	0.0	16.2	0.0	4.7	4.2
26	28.6	N	8:27	10.7	15.0	14.0	14.0	14.0	12.5	10.0	8.0	5.5	5.4	16.2	33.3	16.3	12.0
27	31.7	E	11:02	11.6	16.0	14.5	14.5	15.0	13.0	10.0	8.0	5.5	7.5	16.3	46.2	16.7	10.0
28	19.3	WNW	14:22	7.5	14.5	15.5	15.5	15.5	13.0	10.0	8.0	5.5	5.1	16.3	31.3	14.3	9.6
29	23.6	N	14:53	7.2	19.0	15.5	16.0	16.0	13.5	10.0	8.5	6.0	14.6	16.3	89.4	26.2	8.3
30	54.8	WNW	18:41	8.4	17.0	16.0	16.5	16.5	14.0	10.0	8.5	6.0	11.5	16.4	70.3	22.7	10.3
31	49.7	SSE	19:08	13.6	21.5	17.0	17.5	17.0	14.5	10.5	8.5	6.0	10.0	16.4	61.0	22.9	7.5
Total													309.8	487.5	63.5	631.6	241.9
Mean				15.1	15.2	13.2	13.6	13.6	11.3	7.9	6.3	4.8	1991-2020 Normal				
Extreme	54.8	WNW	18:41		1971- 2000 Normal for Soil Temperatures								274.7	487.8	56.3	634.1	214.0
Date	30				10.3	10.8	11.3	9.3	6.4	4.8	3.4		No. of Bright Sunshine days = 30				

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

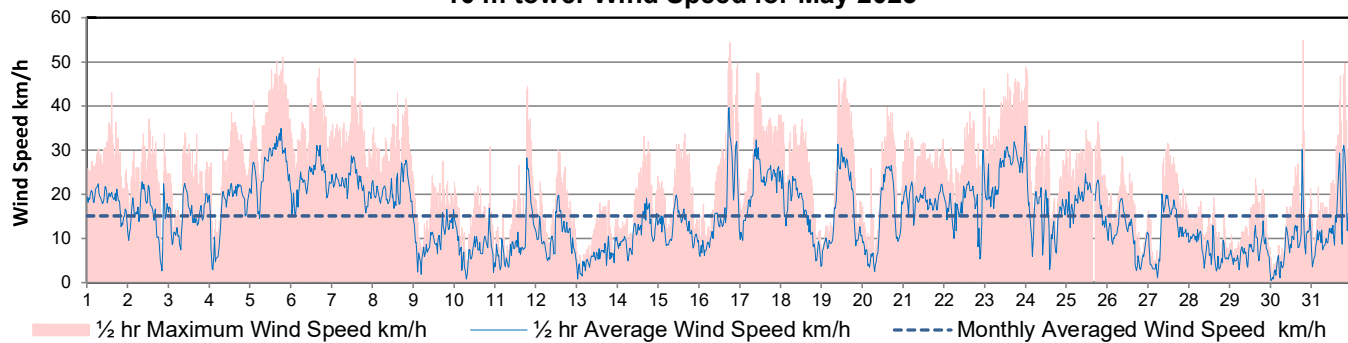
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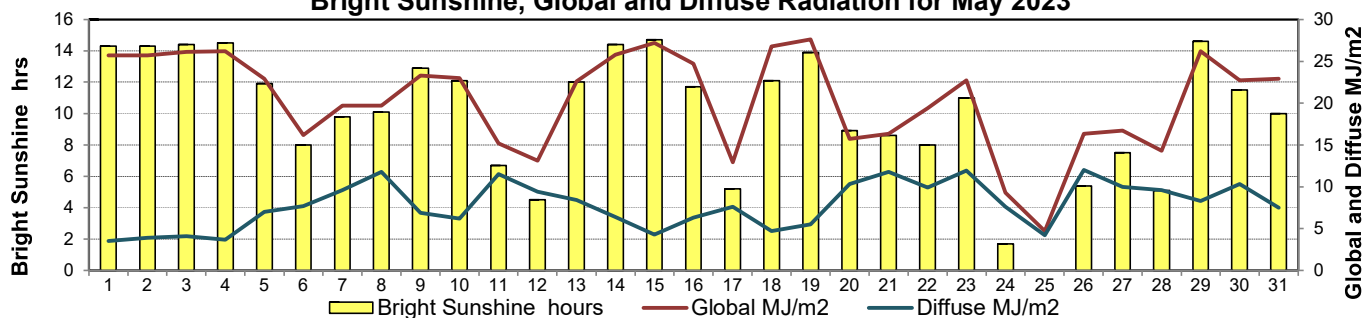
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10 m tower Wind Speed for May 2023

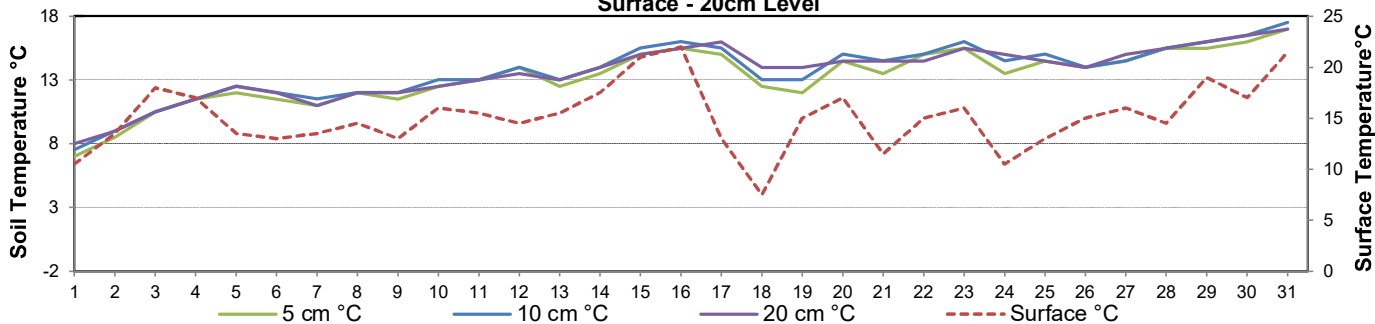


Bright Sunshine, Global and Diffuse Radiation for May 2023



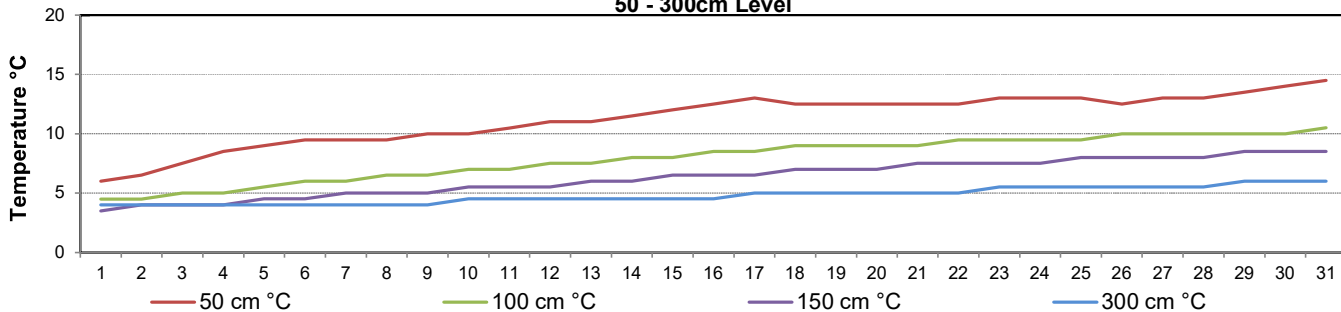
9 am Soil Temperatures for May 2023

Surface - 20cm Level



9 am Soil Temperatures for May 2023

50 - 300cm Level





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SASKATOON STATION 4057180

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Preliminary MAY 2023

Extreme Records for May

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	
37.2	27/1936	SE	35.0	30/1988	178.0	1977	SWT	145.3	1977	132	17 ^{SW}	1965	108	1991	389.3	1980	31	1966*
-12.8	06/1907	SE	-10.0	02/1967	0.0	02/02,1988	SWT, K, SC	0.2	2002						153.0	1996	24	2006

**1975 forward * more than one year

Notable Events for CRS Saskatoon - May						Saskatoon Area Stations			Glossary		
Element	Type	Day	New Record	Old Record	Year	SM	NWMP	c. 1892-1901	T	Trace of precipitation	
Temperature	Average Minimum Monthly		9.1	7.7	1977,2018	SE	Eby	1901-1941	Normal	30 year average beginning with the decade	
	Average Mean Monthly		16.2	16	1988	US	Univ. of Sask.	1915-1964	SOG	Depth of snow-on-the-ground in cm	
	Highest Maximum Daily	16	31.7	28.5	1988	S	Saskatoon	1941-1942	na	not available	
	Highest Minimum Daily		15	13	13.0	2003	SA	Saskatoon A	1942 -	Degree-days	
			31	15.2	14.4	1973	NRC	Nat. Res. Council	1952-1966	Tm	Mean Temperature
	Highest Mean Daily	16	21.4	18.9	2018	SRC	Sask. Res. Council	1963-	Growing	(Tm-5°C); if Tm ≤ 5°C then GDD = 0	
		31	23.5	21.1	1972	SWT	S'toon Water Treatment Plant	1974 -	Heating	(18°C-Tm); if Tm ≤ 18°C then HDD = 0	
Number of maximum daily temperature days >= 20°C		24	23	2013	SC	S'toon Central Ave	1974-1989	Cooling	(Tm-18°C); if Tm ≥ 18°C then CDD = 0		
		24	23	2013	S1	Saskatoon 1	1976-1978	Extreme Cooling	(Tm-24°C); if Tm ≥ 24°C then CDD = 0		
Number of minimum daily temperature days >= 10°C		13	10	2018	S2	Saskatoon 2	1977-1990	Spring maintenance 05 May 2023			
Number of minimum daily temperature days <= 0°C		0	0	1985	K	S'toon Kernen Farm	1993-2004	Desiccant replacement, tipping bucket calibration, Geonor maintenance			
					KCS	S'toon Kernen Farm CS	1996-	Was the last spring frost April 24th? Time will tell			
					RCS	Environment Canada	2008-	May 2023 compared to previous 59 years			
					SF	Sutherland Forestry	1943-1970	- second highest maximum monthly temperature			
								- highest minimum monthly temperature			
								- highest average monthly temperature			
								- precipitation was near normal			
								- 13th driest spring (1964-2023) (53.0mm)			
								- 12th sunniest spring			

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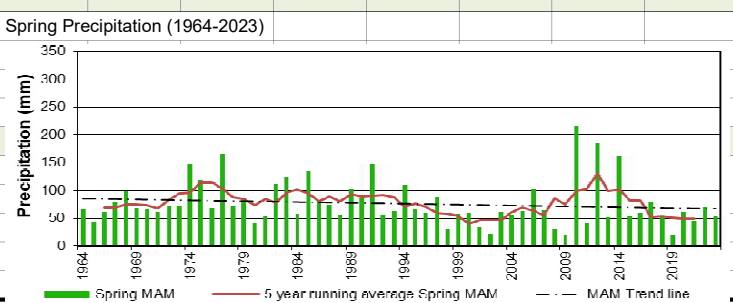
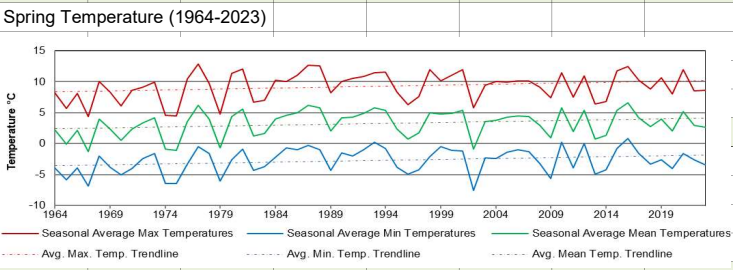
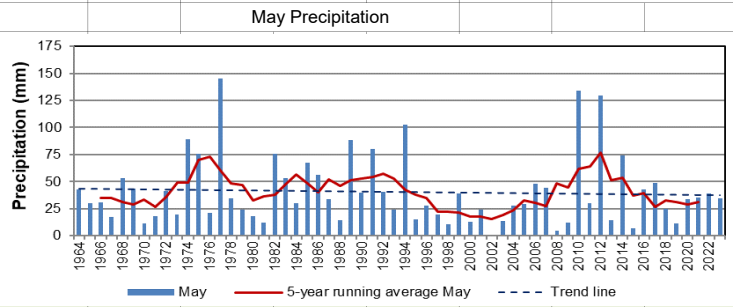
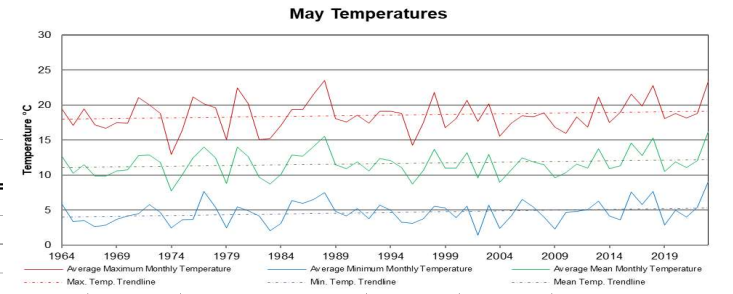
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52°09' N 106°36' W 497 m asl Estab. 1963

Preliminary MAY 2023

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	13.0	16.9	35.6	16.5	21.0	19.5
2	11.0	18.0	29.8	15.5	21.5	19.0
3	12.0	17.8	28.7	14.5	21.0	20.0
4	13.0	17.8	32.1	14.0	21.0	20.0
5	20.0	25.6	40.8	11.5	21.0	20.0
6	18.0	23.6	40.2	12.0	20.5	19.5
7	18.0	22.6	44.8	11.5	21.0	19.5
8	16.0	21.4	35.0	11.0	20.5	19.5
9	8.0	13.3	24.1	11.0	20.0	19.5
10	6.0	12.1	21.2	10.5	20.5	19.5
11	8.0	20.0	33.3	10.0	20.5	19.5
12	8.0	15.3	24.1	9.5	20.0	19.5
13	5.0	8.6	16.6	8.5	20.0	19.5
14	9.0	14.5	27.5	7.5	20.0	19.5
15	10.0	16.1	28.1	6.0	20.0	19.0
16	12.0	28.3	42.5	4.5	20.0	19.5
17	16.0	24.0	36.8	4.0	19.5	19.5
18	12.0	17.5	28.1	3.5	19.5	19.0
19	12.0	23.9	37.9	2.5	19.0	19.5
20	10.0	20.3	32.7	3.0	19.0	19.0
21	14.0	16.8	27.5	2.0	19.0	19.0
22	12.0	21.3	37.3	2.5	18.5	18.5
23	19.0	26.8	40.2	5.0	19.0	19.0
24	11.0	26.5	38.5	9.0	19.0	19.0
25	13.0	18.0	28.7	28.0	18.5	18.5
26	8.0	14.3	21.2	24.0	18.5	19.0
27	8.0	15.8	29.8	18.5	19.5	18.5
28	5.0	10.8	17.7	17.5	20.0	18.5
29	5.0	11.1	20.6	16.5	20.0	19.0
30	6.0	22.2	43.1	14.0	20.5	19.0
31	10.0	0.0	38.0	12.5	20.5	19.5
Total						
Mean				11	20	19.3
Extreme	20.0	28.3	44.8	28	21.5	20
Date	5	16	7	25	2	3



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

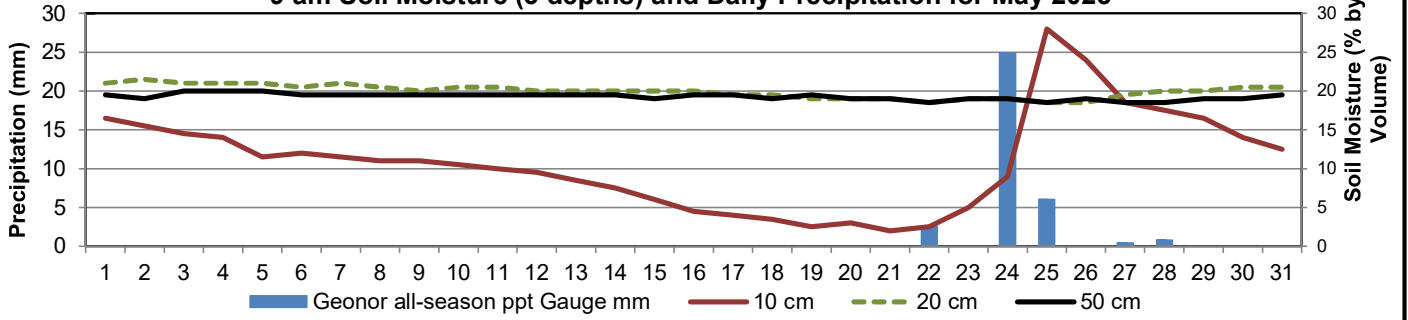
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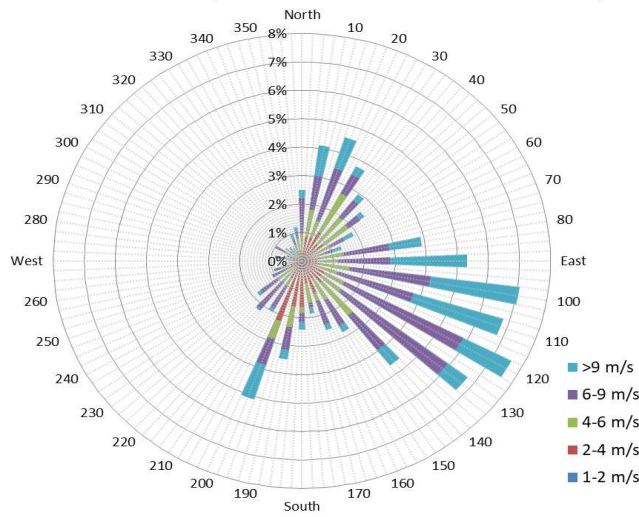
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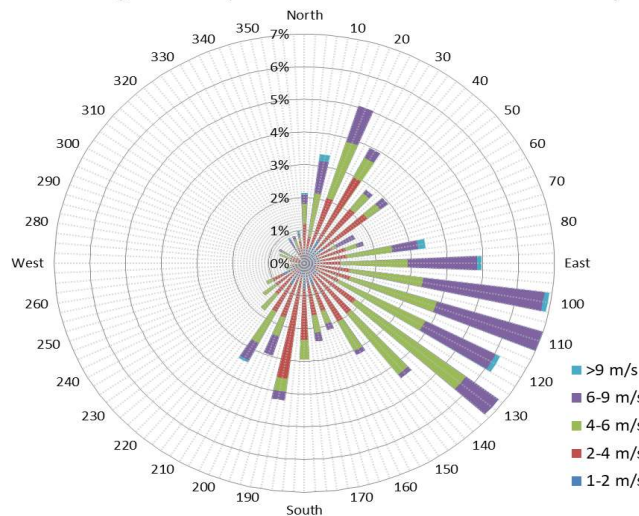
9 am Soil Moisture (3 depths) and Daily Precipitation for May 2023



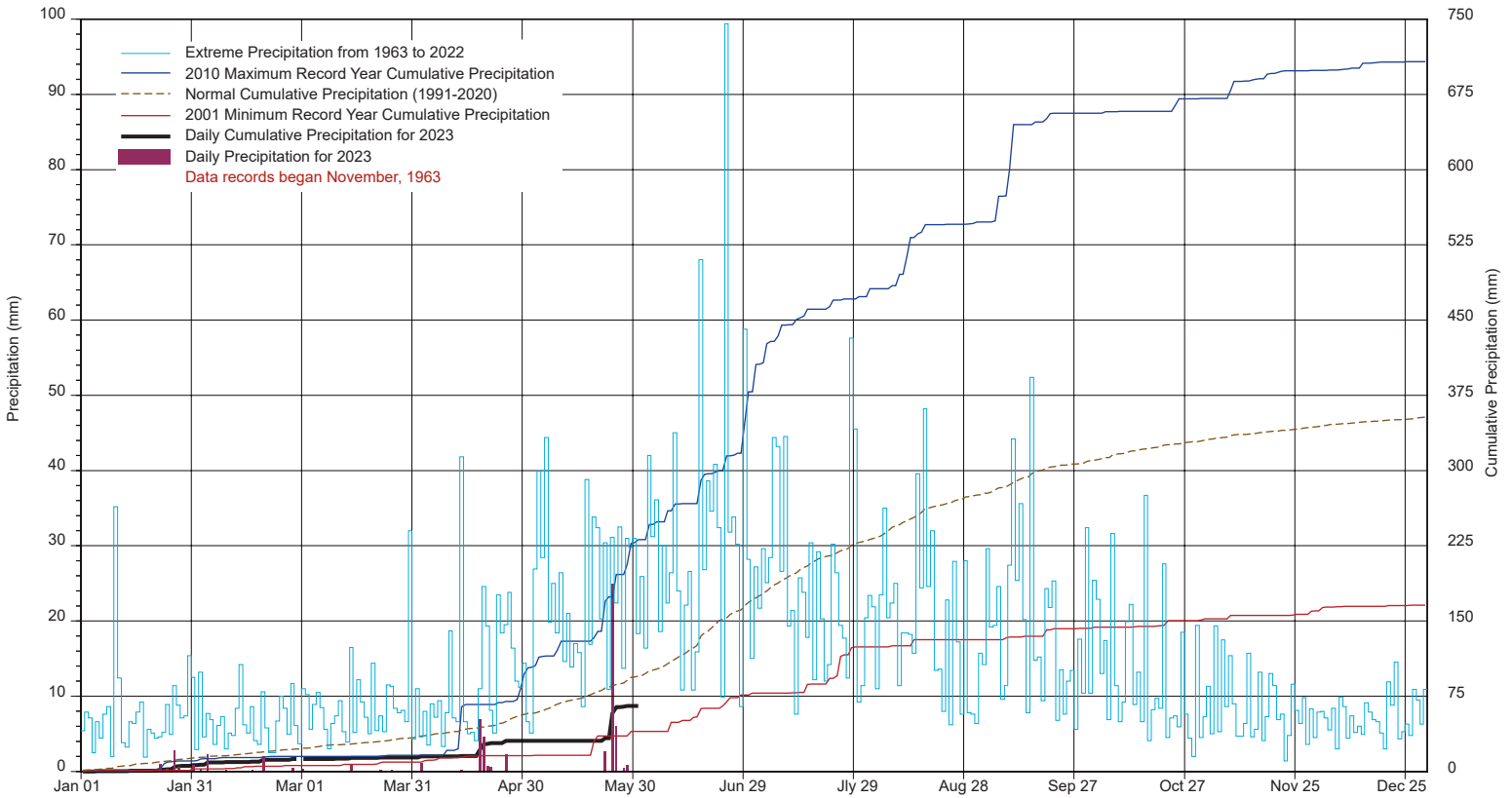
1/2 hr Maximum Wind Speed and Direction Saskatoon May 2023



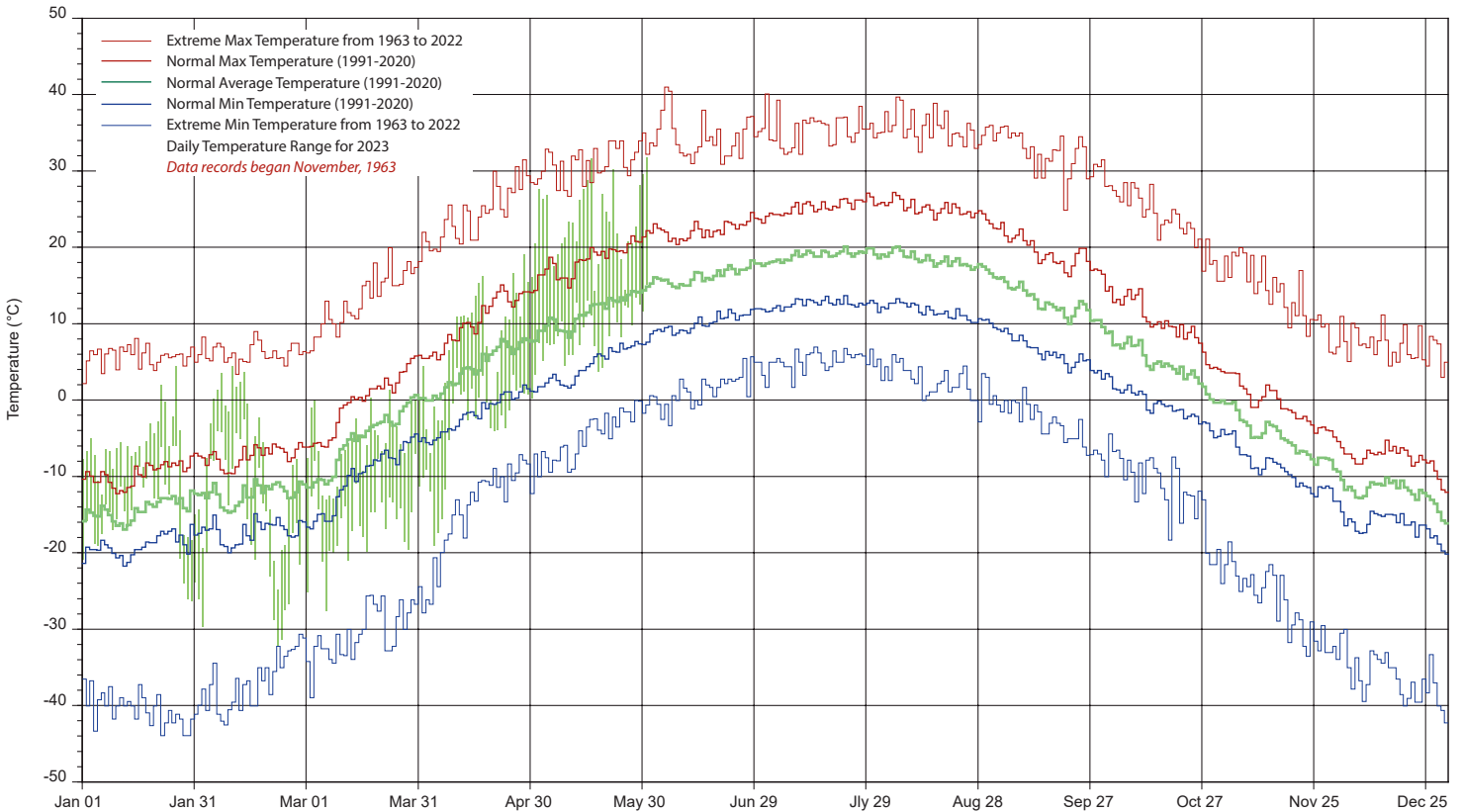
10 minute Average Wind Speed and Direction Saskatoon May 2023



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2023 TEMPERATURES AND NORMALS



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