



SRC CLIMATE REFERENCE STATION DAILY DATA REPORT

SASKATOON STATION 4057180

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

Preliminary MAY 2022

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	13.1	14.4	0.6	1.1	6.9	7.8	1.9	11.1	0.0	0.0	0.0		88	32	1022	1019
2	18.9	16.4	1.5	1.8	10.2	9.1	5.2	7.8	0.0	0.0	0.0		81	23	1019	1011
3	20.3	16.4	4.4	1.8	12.4	9.1	7.4	5.6	0.0	0.0	0.0		77	25	1014	1011
4	23.9	17.2	-0.1	2.3	11.9	9.8	6.9	6.1	0.0	0.0	0.0		95	21	1015	1006
5	27.8	18.7	10.8	2.9	19.3	10.8	14.3	0.0	1.3	0.0	0.0		56	16	1006	998
6	23.3	17.9	12.3	3.4	17.8	10.6	12.8	0.2	0.0	4.2	3.8	rain	88	22	997	993
7	14.2	15.8	7.3	2.6	10.8	9.2	5.8	7.2	0.0	0.0	0.0		64	31	995	993
8	15.0	16.0	3.8	2.0	9.4	9.1	4.4	8.6	0.0	0.0	0.0		64	26	998	994
9	17.5	16.0	2.1	1.9	9.8	9.0	4.8	8.2	0.0	0.0	0.0		78	21	1001	998
10	14.1	14.7	5.3	1.6	9.7	8.2	4.7	8.3	0.0	0.4	0.3	light rain	84	32	1014	1002
11	19.3	15.9	1.9	2.0	10.6	9.0	5.6	7.4	0.0	0.0	0.0		93	18	1020	1015
12	22.9	18.1	6.0	3.2	14.5	10.7	9.5	3.5	0.0	0.0	0.0		78	15	1018	1012
13	14.9	18.4	3.9	3.9	9.4	11.2	4.4	8.6	0.0	13.9	14.7	rain	88	45	1012	1004
14	16.7	18.3	3.7	3.9	10.2	11.1	5.2	7.8	0.0	1.7	1.8	light rain	88	19	1011	1006
15	20.0	18.5	3.0	4.4	11.5	11.5	6.5	6.5	0.0	0.0	0.0		85	21	1015	1011
16	17.9	20.0	6.0	4.8	12.0	12.4	7.0	6.0	0.0	0.0	0.0		72	33	1014	1011
17	17.0	19.4	7.8	5.7	12.4	12.6	7.4	5.6	0.0	5.0	4.8	rain	90	33	1014	1009
18	15.3	19.0	7.8	6.1	11.6	12.6	6.6	6.4	0.0	1.8	1.8	light rain	93	47	1013	999
19	11.5	19.5	2.4	5.8	7.0	12.7	2.0	11.0	0.0	7.9	8.6	rain	91	60	1007	992
20	7.2	18.6	2.8	5.4	5.0	12.0	0.0	13.0	0.0	0.0	0.0		65	47	1019	1008
21	15.6	19.8	-0.9	6.9	7.4	13.4	2.4	10.6	0.0	0.0	0.0		77	23	1023	1020
22	17.7	19.7	3.7	6.4	10.7	13.1	5.7	7.3	0.0	0.0	0.0		60	18	1022	1016
23	23.0	19.5	4.1	6.3	13.6	12.9	8.6	4.4	0.0	0.0	0.0		60	15	1016	1011
24	24.8	19.6	7.3	7.5	16.1	13.5	11.1	1.9	0.0	0.0	0.0		73	13	1013	1010
25	24.7	19.3	8.8	6.7	16.8	13.1	11.8	1.2	0.0	0.0	0.0		64	20	1010	1004
26	24.1	20.5	8.0	6.9	16.1	13.8	11.1	1.9	0.0	0.0	0.0		83	20	1010	1006
27	23.0	21.5	7.3	7.1	15.2	14.3	10.2	2.8	0.0	0.2	0.0		78	25	1010	1004
28	24.2	20.8	11.1	7.7	17.7	14.2	12.7	0.3	0.0	0.0	0.0		91	32	1004	996
29	21.0	20.7	9.9	7.4	15.5	14.1	10.5	2.5	0.0	3.8	4.1	rain	93	43	1006	999
30	15.6	21.4	8.1	7.3	11.9	14.4	6.9	6.1	0.0	0.0	0.0		93	53	1016	1006
31	19.5	22.2	5.2	7.6	12.4	14.9	7.4	5.6	0.0	0.0	0.0		68	18	1018	1016
Total							220.8	183.5	1.3	38.9	39.9		Extreme / Date	Extreme / Date	Extreme / Date	Extreme / Date
Avg	18.8	18.5	5.4	4.7	12.1	11.6	1991-2020 Normal			37.6	1991-2020 Normal					
Extreme Date	27.8		-0.9				211.0	204.0	6.1	95.2	Year to date 2022 Cumulative		95	13	1023	992
	5		21							94.4	Year to date Cumulative Normal		4	24	21	19

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

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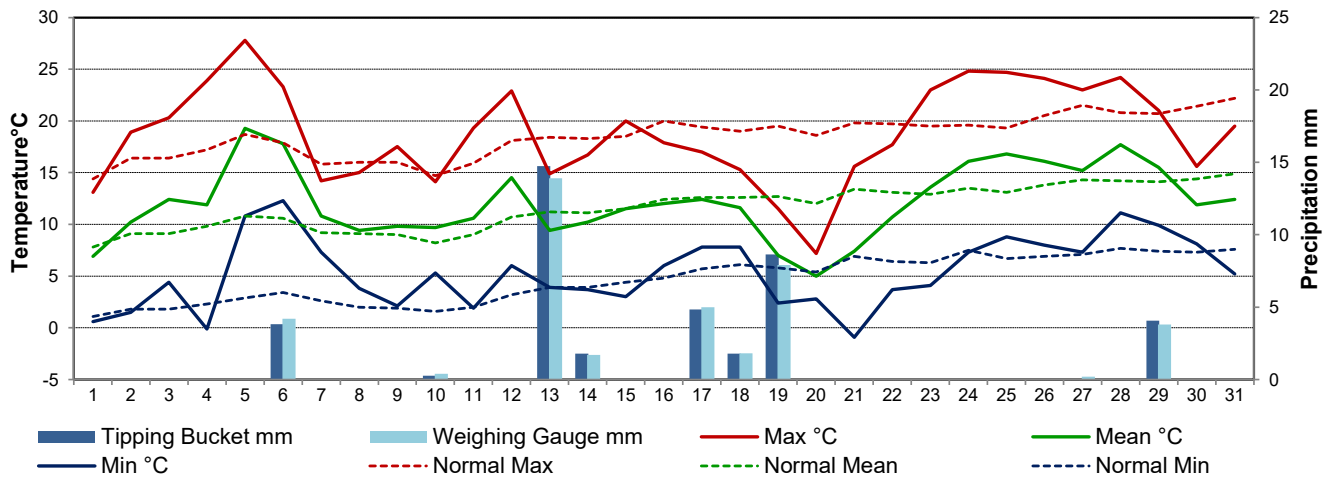


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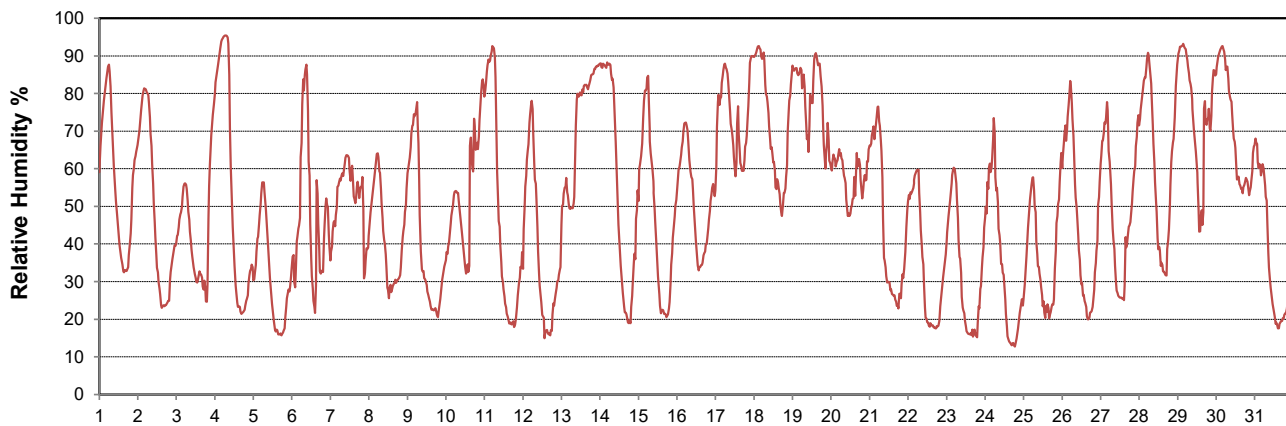
Agriculture et Agroalimentaire Canada



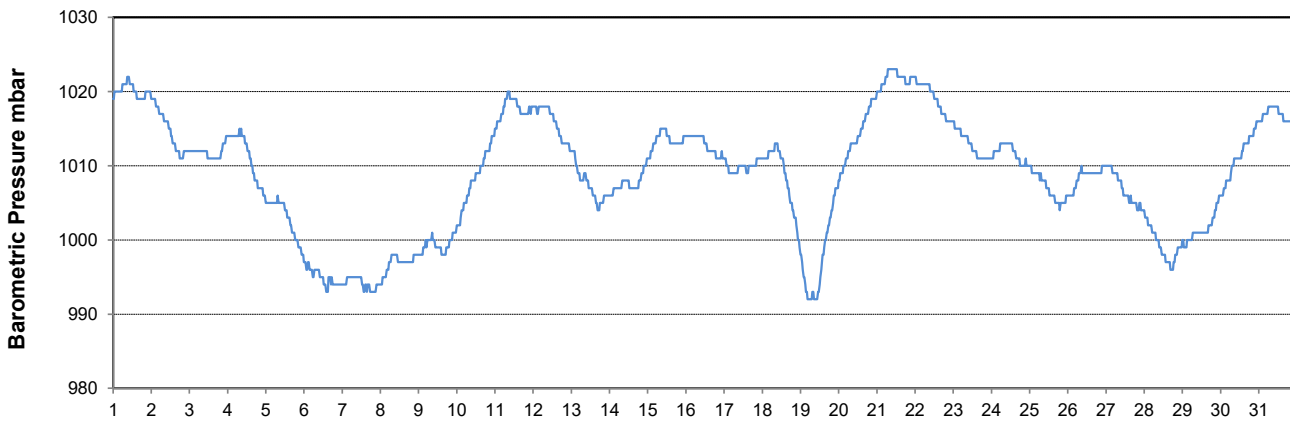
Temperature and Precipitation for May 2022



Relative Humidity for May 2022



Barometric Pressure Corrected to Sea Level for May 2022





SRC CLIMATE REFERENCE STATION DAILY DATA REPORT

SASKATOON STATION 4057180

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

Preliminary MAY 2022

Day	10 m tower Wind Gust			Wind Speed (10 meters) Daily Average km/h	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	33.2	NE	14:39	17.0	6.5	7.0	8.0	8.5	6.0	4.0	3.5	3.5	12.6	14.9	84.3	24.4	6.3
2	50.1	SSE	16:04	23.4	6.0	7.5	8.0	9.0	6.5	4.5	3.5	3.5	11.8	15.0	78.7	20.2	7.7
3	37.3	S	2:09	17.0	12.5	9.0	9.5	9.5	7.0	5.0	3.5	3.5	12.1	15.1	80.3	20.1	10.5
4	46.7	SE	16:14	16.4	4.0	9.0	9.5	9.5	7.5	5.0	4.0	4.0	8.3	15.1	54.9	21.3	6.8
5	34.8	SSW	15:38	15.9	15.0	11.5	11.5	10.5	8.0	5.5	4.0	4.0	12.2	15.2	80.4	23.5	8.6
6	69.6	W	15:36	20.6	12.5	13.5	13.5	12.5	8.5	5.5	4.0	4.0	7.9	15.2	51.9	18.1	7.2
7	31.4	NNW	21:13	11.3	9.5	10.5	11.0	11.5	9.0	6.0	4.5	4.0	2.8	15.3	18.3	8.0	6.6
8	42.0	WSW	13:37	14.4	9.5	8.5	9.0	10.0	9.0	6.5	4.5	4.0	12.1	15.4	78.8	19.0	12.0
9	34.9	NW	19:46	13.1	10.5	8.0	8.5	9.0	8.5	6.5	5.0	4.0	13.5	15.4	87.7	24.1	9.7
10	40.1	WNNW	15:11	11.7	8.0	10.0	10.0	10.5	8.5	6.5	5.0	4.0	0.9	15.5	5.8	9.3	8.4
11	29.6	WSW	17:02	8.7	9.0	8.0	8.5	8.5	8.5	6.5	5.0	4.0	14.4	15.5	92.8	27.5	3.9
12	39.5	ESE	17:13	12.6	14.5	10.0	10.5	11.0	9.0	7.0	5.0	4.0	12.7	15.6	81.6	24.7	6.3
13	62.6	N	18:53	26.6	9.5	12.0	12.0	12.0	9.5	7.0	5.5	4.0	0.0	15.6	0.0	3.6	3.2
14	48.4	NW	12:19	21.5	6.0	8.0	8.5	9.0	9.0	7.0	5.5	4.5	8.8	15.7	56.2	20.4	9.3
15	50.5	NW	14:05	13.4	9.0	7.5	8.0	9.0	8.5	7.0	5.5	4.5	13.6	15.7	86.5	24.9	6.1
16	41.5	E	13:46	22.2	11.0	9.5	9.5	10.0	9.0	7.5	5.5	4.5	5.5	15.8	34.9	17.4	10.5
17	45.0	SE	3:58	17.3	12.0	10.0	10.5	10.5	9.0	7.5	5.5	4.5	7.7	15.8	48.7	16.8	9.6
18	39.3	ESE	23:01	16.0	10.5	11.5	11.5	10.5	9.0	7.5	6.0	4.5	3.5	15.9	22.1	12.1	9.2
19	63.9	E	12:29	25.8	9.0	10.5	10.5	10.5	9.5	7.5	6.0	4.5	3.5	15.9	22.0	9.8	5.9
20	55.8	NNW	10:29	23.6	4.0	7.0	8.0	8.5	9.0	7.5	6.0	4.5	3.1	16.0	19.4	13.8	11.5
21	34.3	N	11:02	9.4	7.5	6.0	6.5	8.0	8.5	7.5	6.0	4.5	9.7	16.0	60.6	25.0	8.5
22	38.5	WSW	13:35	14.3	10.5	8.0	8.5	9.5	8.5	7.5	6.0	5.0	9.5	16.1	59.2	19.5	13.1
23	48.2	N	16:10	12.3	13.5	8.5	8.5	9.5	8.5	7.5	6.0	5.0	12.5	16.1	77.6	26.1	6.3
24	45.7	SSW	16:50	13.8	16.0	11.0	11.0	11.5	9.0	7.5	6.5	5.0	10.5	16.1	65.1	22.7	8.8
25	47.6	WNNW	15:09	12.0	17.0	12.0	12.5	12.5	10.0	8.0	6.5	5.0	9.8	16.2	60.6	22.9	8.6
26	40.0	NW	14:17	13.2	16.5	13.0	13.5	13.5	10.5	8.0	6.5	5.0	15.0	16.2	92.4	27.8	5.6
27	36.0	S	15:17	12.4	19.0	13.5	14.0	14.0	11.0	8.5	6.5	5.0	7.2	16.3	44.3	14.4	9.7
28	39.7	SE	10:07	15.7	16.5	13.5	13.5	13.5	11.5	8.5	6.5	5.0	9.5	16.3	58.3	22.4	8.4
29	53.3	NNE	16:29	15.6	13.5	14.5	15.0	14.5	11.5	9.0	7.0	5.0	2.4	16.3	14.7	12.0	9.3
30	54.0	N	18:19	22.9	12.0	12.5	13.0	13.5	12.0	9.0	7.0	5.5	2.4	16.4	14.7	10.4	8.7
31	55.0	N	10:52	22.3	11.0	10.0	11.0	12.0	11.5	9.5	7.0	5.5	14.9	16.4	90.8	28.2	4.5
Total													270.4	487.9	55.4	590.4	250.8
Mean				16.5	11.0	10.0	10.4	10.7	9.1	7.0	5.4	4.4	1991-2020 Normal				
Extreme	69.6	W	15:36		1971- 2000 Normal for Soil Temperatures								274.7	487.8	56.3	634.1	214.0
Date	6				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

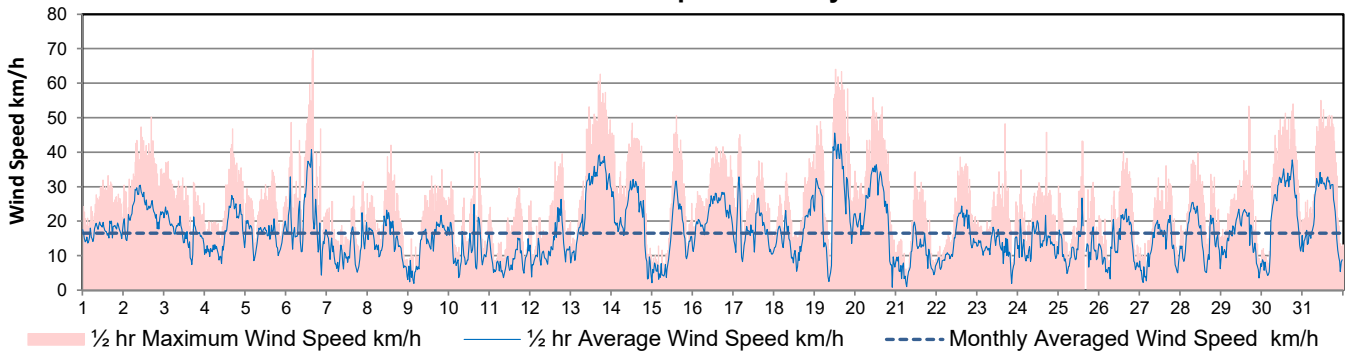
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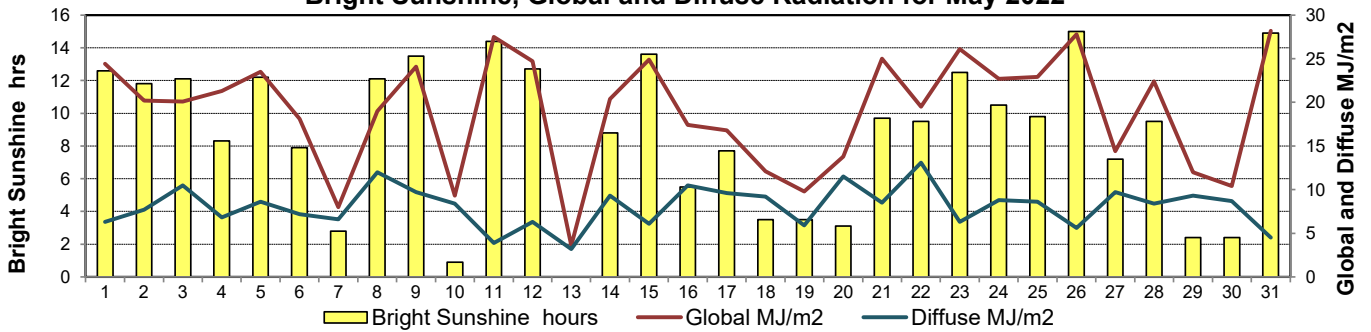
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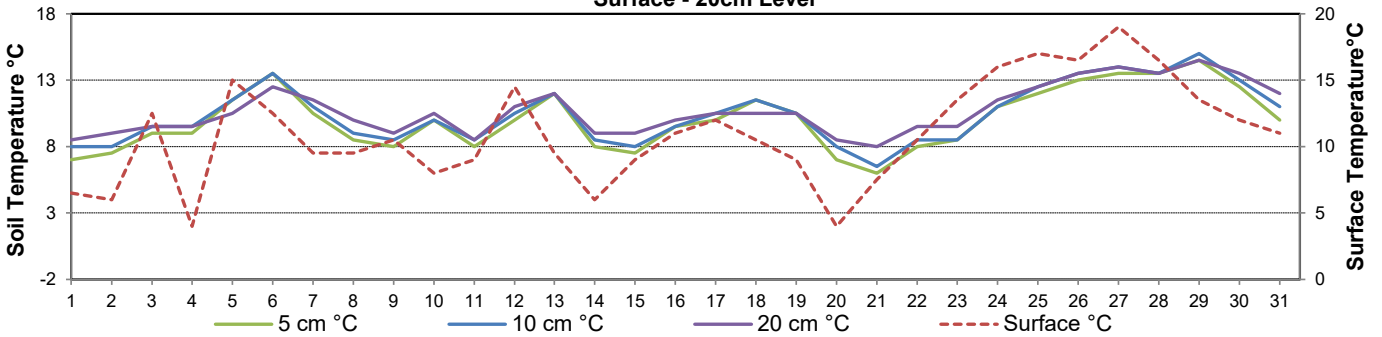
10 m tower Wind Speed for May 2022



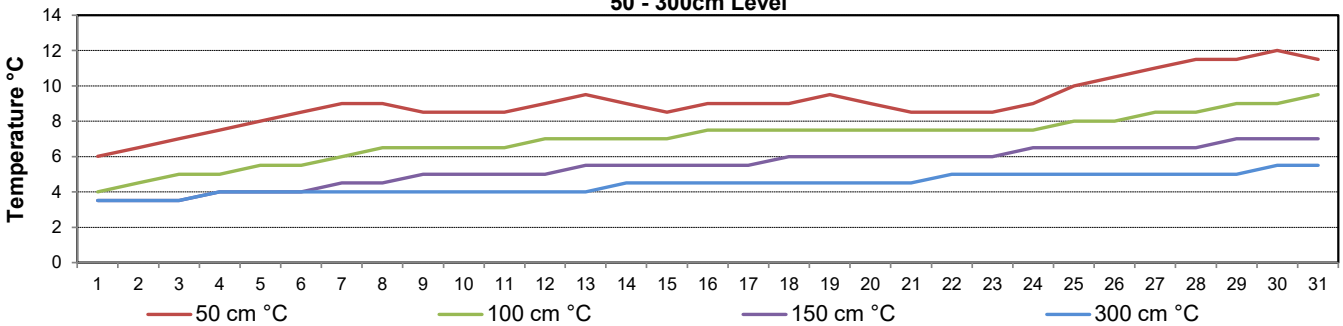
Bright Sunshine, Global and Diffuse Radiation for May 2022



**9 am Soil Temperatures for May 2022
Surface - 20cm Level**



**9 am Soil Temperatures for May 2022
50 - 300cm Level**





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Preliminary **MAY** 2022

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
Precipitation	Highest Daily Maximum	13	13.9	8.5	1991	SE	Eby		1901-1941	Normal	30 year average beginning with the decade
						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								
											Diffuse Ring re-aligned 11 May 2022
											Spring maintenance 04 May 2022 including desiccant replacement in the pyrometers and bright sunshine instruments, did spring servicing of the Geonor and changed the bearings in the RMYoung Wind Sensor

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Preliminary

MAY

2022

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	16.2	29.8	21.0	19.0	18.0												
2	16.0	23.0	36.2	20.5	19.0	18.0												
3	12.0	17.1	29.3	20.0	18.5	18.5												
4	13.0	20.6	35.0	19.5	18.5	18.5												
5	12.0	17.2	28.1	19.0	18.5	18.0												
6	15.0	32.4	52.9	17.5	18.0	18.5												
7	9.0	17.1	25.8	16.5	17.5	18.0												
8	11.0	19.4	37.3	16.0	17.0	17.5												
9	10.0	16.8	30.4	15.5	17.0	17.5												
10	9.0	19.1	33.3	15.0	16.5	17.5												
11	6.0	13.0	26.4	14.5	16.5	18.0												
12	9.0	19.7	31.0	14.0	16.0	17.5												
13	19.0	29.9	48.8	14.0	16.0	17.0												
14	16.0	24.6	37.3	13.0	15.0	17.0												
15	9.0	24.3	39.1	13.5	15.0	17.5												
16	17.0	22.0	33.9	13.5	15.0	17.5												
17	13.0	24.3	36.2	14.0	15.0	17.0												
18	12.0	20.9	31.6	14.0	15.0	17.0												
19	19.0	33.9	52.9	14.0	15.0	17.0												
20	18.0	27.4	43.7	15.5	14.0	17.0												
21	7.0	15.8	28.1	18.5	14.5	16.5												
22	11.0	20.1	32.7	19.0	14.0	16.5												
23	10.0	15.5	40.2	18.5	14.0	16.5												
24	10.0	17.1	33.9	18.0	14.5	16.5												
25	9.0	20.6	39.1	17.0	14.0	16.5												
26	10.0	18.9	35.0	16.0	14.0	16.5												
27	9.0	15.9	26.4	15.0	14.0	16.5												
28	12.0	19.0	31.0	14.0	13.0	16.5												
29	11.0	18.0	39.1	14.0	13.5	15.5												
30	16.0	28.0	40.2	13.5	12.5	16.0												
31	17.0	0.0	44.0	13.0	12.0	15.5												
Total																		
Mean				16	16	17.1												
Extreme	19.0	33.9	52.9	21	19	18.5												
Date	13	19	6	1	1	3												

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

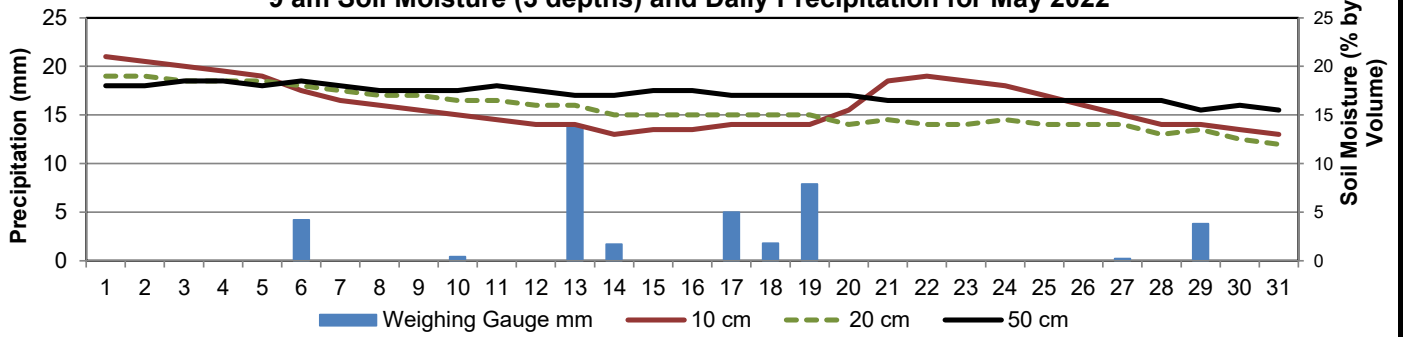
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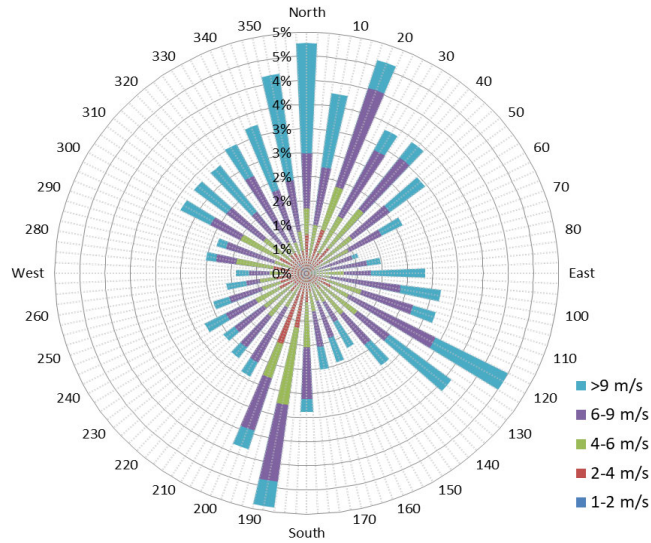
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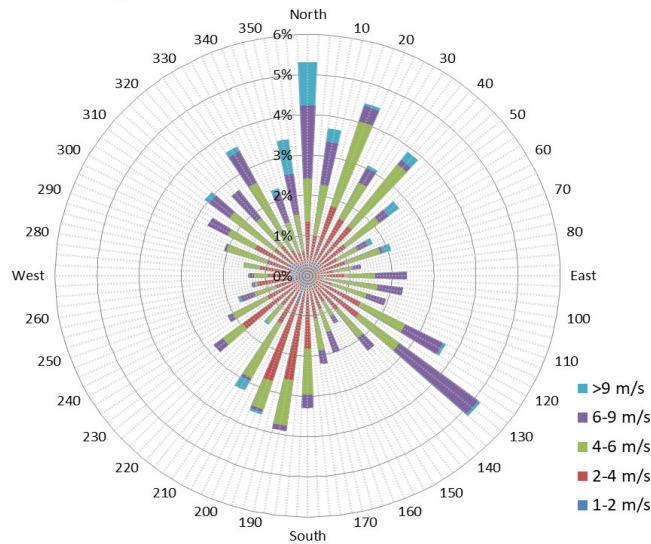
9 am Soil Moisture (3 depths) and Daily Precipitation for May 2022



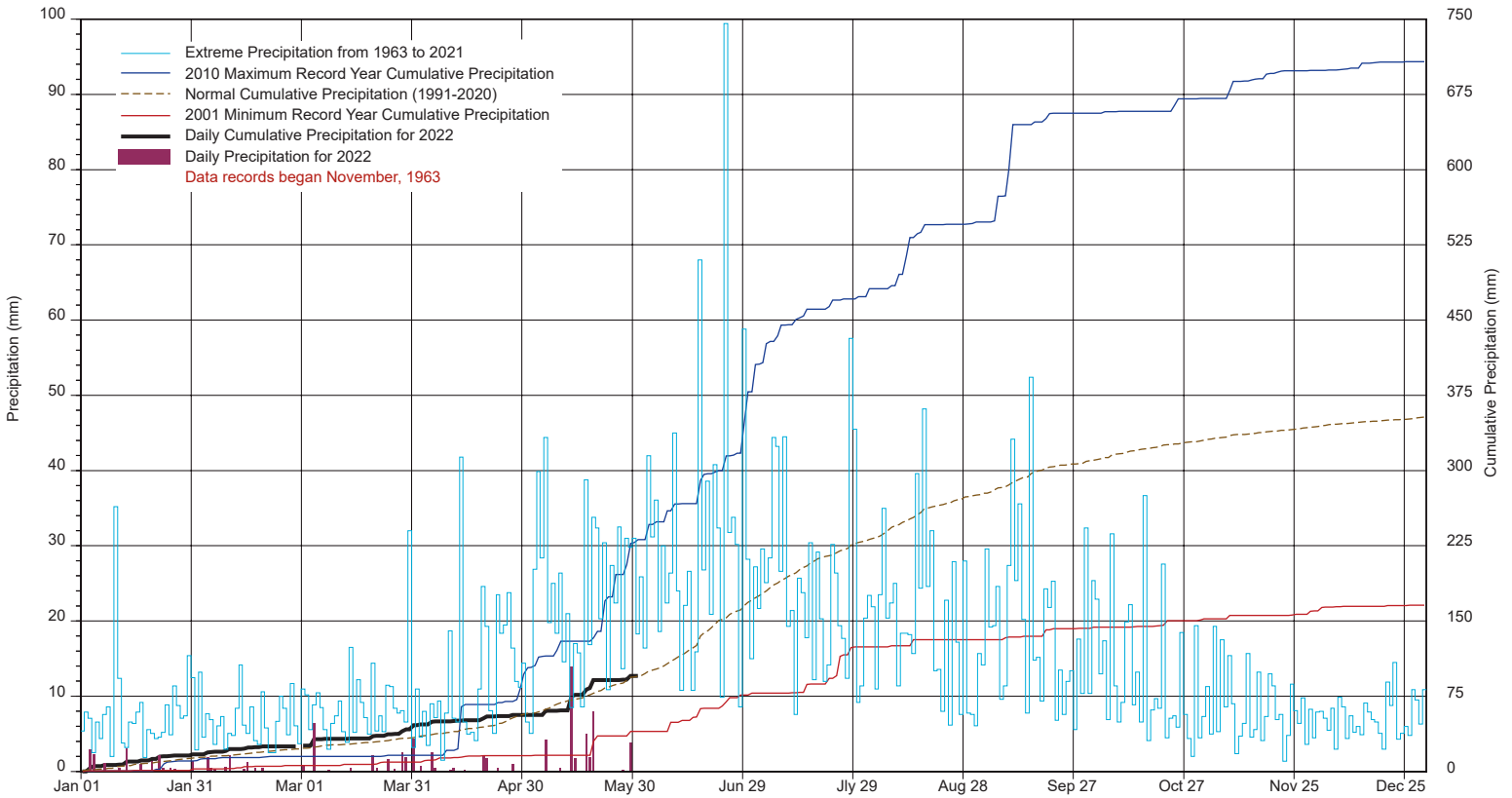
1/2 hr Maximum Wind Speed and Direction Saskatoon May 2022



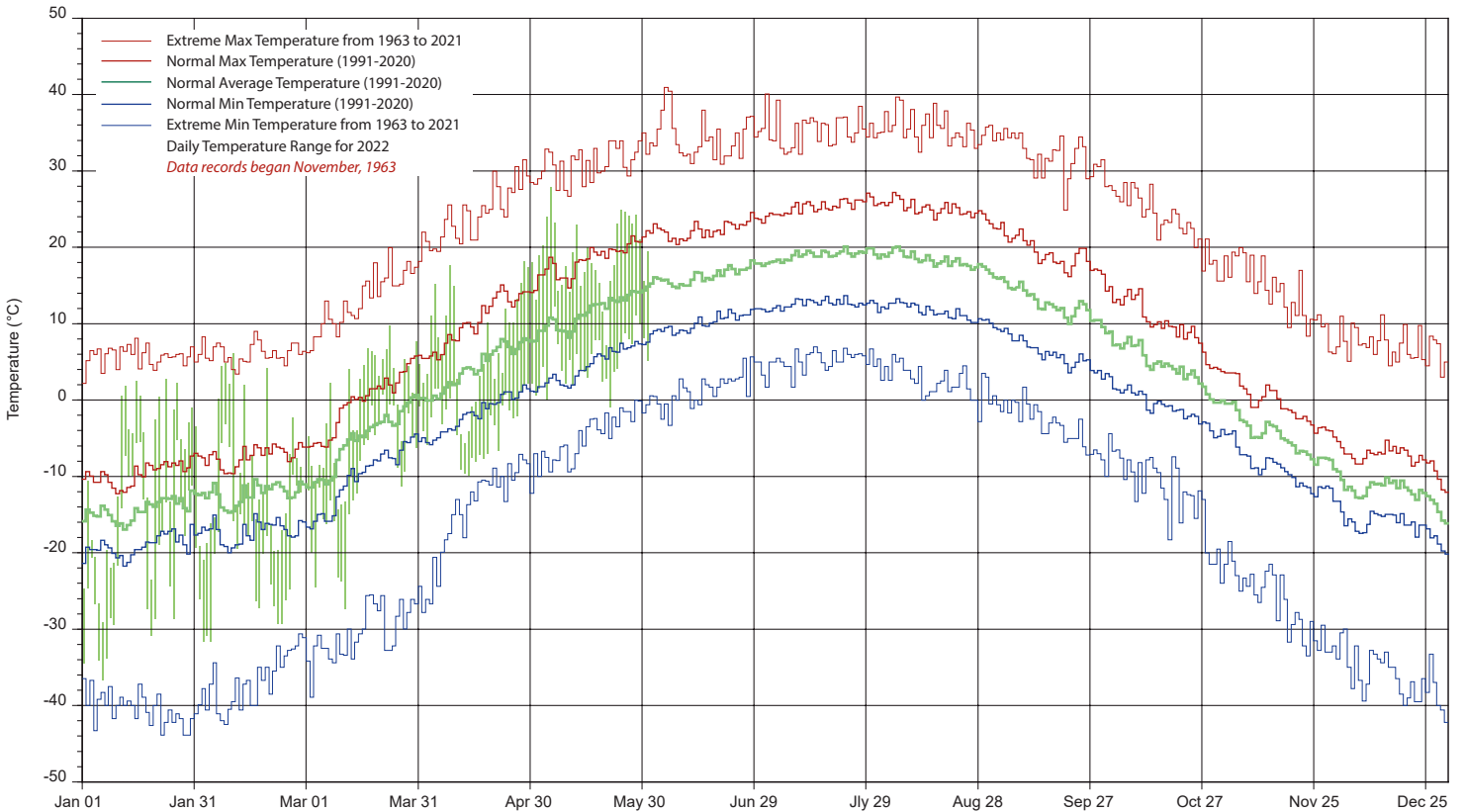
10 minute Average Wind Speed and Direction Saskatoon May 2022



SASKATCHEWAN RESEARCH COUNCIL SASKATOON CLIMATE REFERENCE STATION 2022 PRECIPITATION AND NORMALS



2022 TEMPERATURES AND NORMALS



SRC proudly recongnizes the following CRS supporters:

