



SRC CLIMATE REFERENCE STATION DAILY DATA REPORT

SASKATOON STATION 4057180

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

Preliminary NOVEMBER 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	Notes	Snow-on-Ground 0900h	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		cm	%	%	mbar	mbar
1	2.5	3.8	-4.3	-3.8	-0.9	0.0	0.0	18.9	0.0	0.0		0	77	48	1029	1025
2	7.1	3.6	-7.5	-4.5	-0.2	-0.4	0.0	18.2	0.0	0.0		0	86	35	1025	1018
3	8.6	3.6	-7.7	-4.4	0.5	-0.4	0.0	17.5	0.0	0.0		0	90	38	1018	1011
4	12.9	3.6	-2.9	-4.0	5.0	-0.2	0.0	13.0	0.0	0.0		0	90	50	1011	999
5	13.3	3.5	2.6	-6.1	8.0	-1.3	3.0	10.0	0.0	0.0		0	83	48	1004	998
6	6.6	1.9	-2.1	-7.1	2.3	-2.6	0.0	15.7	0.0	0.0		0	93	55	1009	1004
7	9.5	1.5	-4.3	-7.1	2.6	-2.8	0.0	15.4	0.0	0.0		0	95	28	1011	1005
8	8.4	0.8	-5.4	-7.3	1.5	-3.3	0.0	16.5	0.0	0.0		0	75	30	1018	1011
9	7.6	-0.9	-8.2	-8.9	-0.3	-4.9	0.0	18.3	0.0	0.1		0	77	34	1019	1008
10	3.3	-0.9	-2.1	-8.8	0.6	-4.8	0.0	17.4	0.0	4.7		0	96	64	1013	1005
11	-2.0	0.0	-5.1	-9.7	-3.6	-4.9	0.0	21.6	0.0	1.9		7	96	79	1028	1014
12	-5.1	0.5	-9.4	-9.0	-7.3	-4.3	0.0	25.3	0.0	0.2		5	90	82	1029	1009
13	0.4	2.0	-12.8	-7.5	-6.2	-2.8	0.0	24.2	0.0	0.0		3	89	70	1013	1008
14	-0.1	1.3	-5.8	-7.6	-3.0	-3.2	0.0	21.0	0.0	0.0		3	87	74	1012	1006
15	1.5	1.3	-2.3	-8.1	-0.4	-3.4	0.0	18.4	0.0	1.6		3	96	88	1009	988
16	5.3	0.2	-3.3	-8.3	1.0	-4.0	0.0	17.0	0.0	4.6		0	96	72	1006	980
17	-3.2	-1.1	-10.1	-8.8	-6.7	-5.0	0.0	24.7	0.0	0.0		3	95	75	1025	980
18	-3.3	-1.1	-12.2	-9.3	-7.8	-5.2	0.0	25.8	0.0	0.0		3	91	66	1024	1006
19	-1.7	-1.3	-11.0	-9.7	-6.4	-5.5	0.0	24.4	0.0	0.0		3	90	69	1013	1006
20	-0.2	-1.6	-11.1	-10.1	-5.7	-5.9	0.0	23.7	0.0	0.0		3	84	65	1026	1009
21	-5.4	-2.4	-17.3	-11.3	-11.4	-6.9	0.0	29.4	0.0	0.0		3	83	68	1029	1014
22	3.6	-2.4	-6.4	-10.8	-1.4	-6.6	0.0	19.4	0.0	0.0		3	90	62	1014	997
23	0.9	-2.1	-12.1	-11.2	-5.6	-6.7	0.0	23.6	0.0	0.0		3	77	62	1016	998
24	-10.0	-2.7	-16.2	-11.4	-13.1	-7.1	0.0	31.1	0.0	0.0		3	78	67	1027	1017
25	-1.8	-3.2	-11.8	-12.2	-6.8	-7.7	0.0	24.8	0.0	0.0		3	90	72	1021	1003
26	5.0	-4.3	-6.2	-12.6	-0.6	-8.4	0.0	18.6	0.0	0.0		3	92	59	1012	1003
27	2.8	-3.6	-6.4	-11.3	-1.8	-7.5	0.0	19.8	0.0	0.0		3	76	46	1020	1013
28	1.3	-3.5	-5.3	-11.5	-2.0	-7.5	0.0	20.0	0.0	0.0		3	91	62	1016	1005
29	5.1	-3.9	-4.4	-11.2	0.4	-7.6	0.0	17.6	0.0	0.0		2	92	58	1018	1006
30	3.2	-4.0	-6.4	-11.5	-1.6	-7.8	0.0	19.6	0.0	0.0		3	89	67	1018	998
Total							3.0	610.9	0.0	13.1			Extreme / Date	Extreme / Date	Extreme / Date	Extreme / Date
Avg	2.5	-0.4	-7.3	-8.8	-2.4	-4.6	1991-2020 Normal			13.8	1991-2020 Normal					
Extreme	13.3		-17.3				3.9	678.7	0.0	154.2	Cumulative		96	28	1029	980
Date	5		21							342.4	Cumulative Normal		10	7	1	16

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

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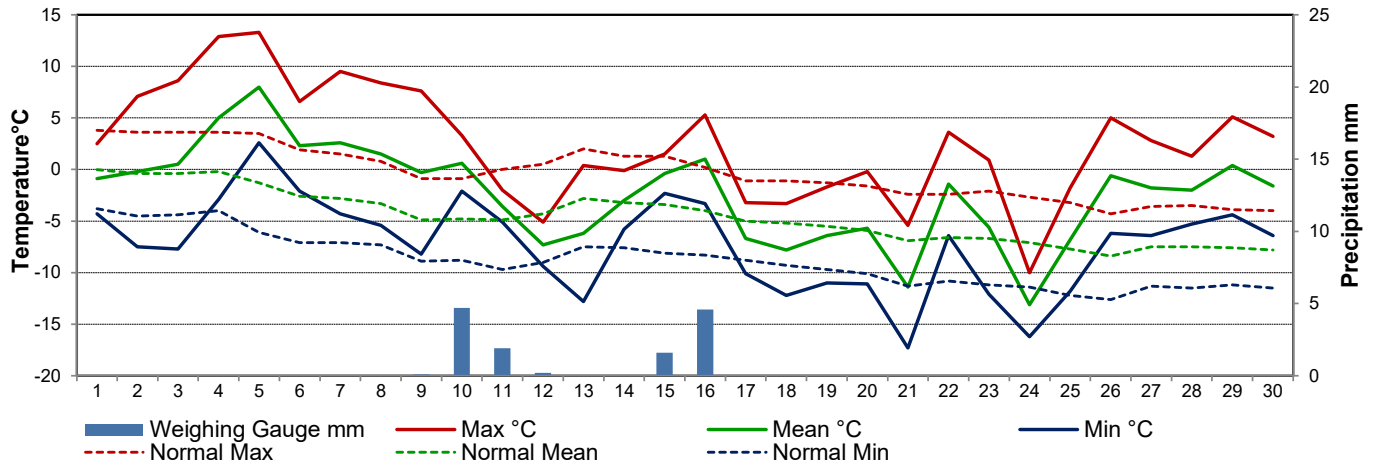


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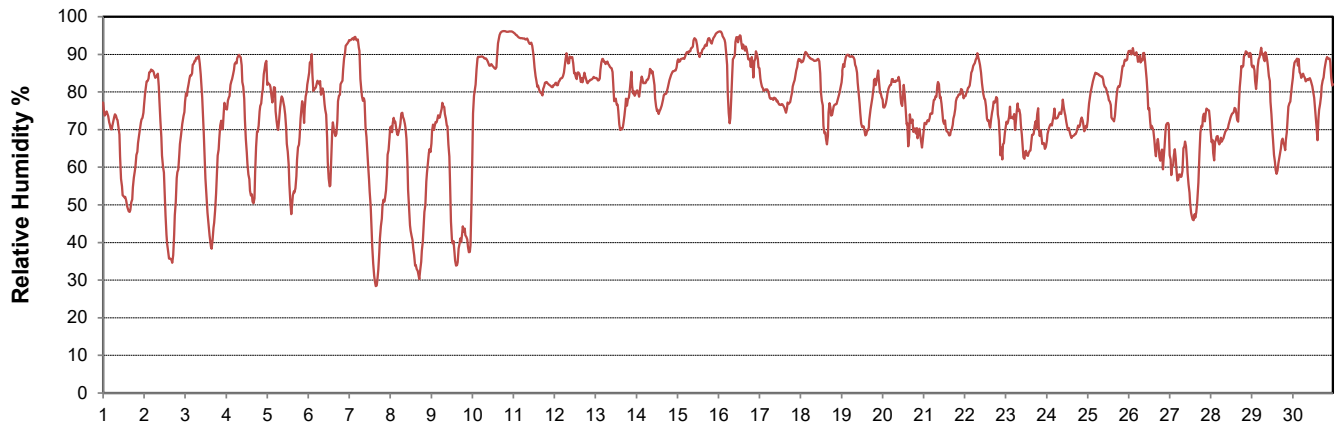
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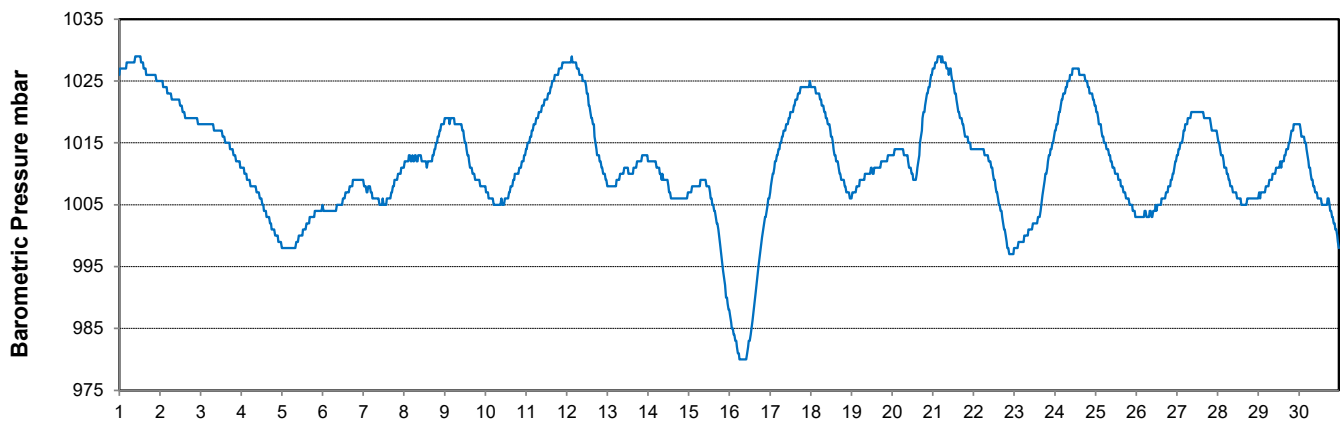
Temperature and Precipitation for November 2021



Relative Humidity for November 2021



Barometric Pressure Corrected to Sea Level for November 2021





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

Preliminary **NOVEMBER 2021**

Day	Wind Gust (10 meter)			Wind Speed (10 meters)	Soil Temperatures at 0900hrs								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
	km/h			km/h		°C	°C	°C	°C	°C	°C	°C	°C	hours	hours		MJ/m ²
1	19.2	SSW	15:51	6.3	-3.0	0.0	1.0	2.0	6.0	9.0	10.0	10.5	7.1	9.6	74.2	6.9	1.6
2	25.3	SSE	16:25	9.1	-7.0	-2.0	-0.5	2.0	5.5	9.0	10.0	10.5	9.2	9.5	96.7	7.8	1.8
3	17.3	SSW	13:30	6.6	-7.5	-3.0	-1.5	1.0	5.0	9.0	10.0	10.5	8.6	9.5	91.0	7.9	1.2
4	16.4	ESE	17:15	6.0	-3.0	-2.0	-1.0	1.0	4.5	8.5	9.5	10.5	8.0	9.4	85.2	6.8	1.4
5	45.1	NW	15:13	14.4	3.0	1.0	1.5	2.0	4.5	8.5	9.5	10.5	8.1	9.3	86.8	6.6	1.2
6	32.4	W	12:31	11.1	-1.5	0.5	1.5	3.0	5.0	8.0	9.5	10.5	7.4	9.3	79.8	6.2	1.6
7	37.8	SW	10:05	14.9	-1.0	0.0	1.0	2.0	5.0	8.0	9.5	10.5	8.5	9.2	92.2	6.8	1.1
8	39.4	SW	11:54	14.5	-3.5	-1.5	0.0	1.5	5.0	8.0	9.0	10.0	8.2	9.2	89.5	6.4	1.2
9	48.5	ESE	19:57	17.4	-8.0	-3.0	-1.0	1.0	4.5	8.0	9.0	10.0	6.9	9.1	75.8	5.2	2.4
10	50.6	ESE	1:13	21.9	0.5	0.5	1.0	1.5	4.0	8.0	9.0	10.0	0.0	9.0	0.0	1.0	1.0
11	32.5	NNE	1:42	17.5	-4.0	1.0	1.5	2.0	4.0	7.5	9.0	10.0	0.0	9.0	0.0	3.3	3.3
12	51.9	SE	0:00	18.1	-8.5	1.0	1.5	2.0	4.5	7.5	8.5	10.0	0.0	8.9	0.0	2.8	2.8
13	28.8	SE	17:14	8.5	-11.0	0.5	1.0	2.0	4.5	7.5	8.5	10.0	5.2	8.9	58.6	5.1	3.0
14	18.9	SE	18:55	7.0	-7.0	0.0	0.5	1.5	4.0	7.5	8.5	10.0	0.0	8.8	0.0	2.5	2.5
15	57.7	SE	22:39	14.6	-1.0	0.5	1.0	1.5	4.0	7.5	8.5	10.0	0.0	8.8	0.0	2.5	2.4
16	64.6	NW	12:51	32.2	2.0	1.0	1.0	2.0	4.0	7.0	8.5	9.5	0.0	8.7	0.0	0.9	0.9
17	64.2	NW	1:09	28.2	-6.5	0.5	1.5	2.0	4.0	7.0	8.5	9.5	0.0	8.7	0.0	2.5	2.5
18	36.8	SSE	15:45	13.5	-12.0	0.5	1.0	2.0	4.0	7.0	8.0	9.5	2.6	8.6	30.2	4.3	4.0
19	26.5	WSW	23:00	10.3	-10.5	0.5	1.0	1.5	4.0	7.0	8.0	9.5	7.8	8.6	91.0	6.3	5.0
20	50.4	N	18:12	19.2	-7.5	0.0	0.5	1.5	4.0	7.0	8.0	9.5	4.4	8.5	51.6	4.3	4.0
21	28.1	SSW	14:45	11.5	-18.0	-0.5	0.5	1.5	4.0	7.0	8.0	9.5	1.1	8.5	13.0	3.0	2.8
22	25.0	WSW	21:55	10.7	-6.0	-1.5	-1.0	0.5	4.0	7.0	8.0	9.5	0.0	8.4	0.0	2.6	2.5
23	49.5	WNW	16:16	18.4	-5.5	-1.5	-0.5	0.5	3.5	6.5	8.0	9.5	4.6	8.4	54.8	3.4	3.1
24	32.1	NNW	0:19	13.1	-15.5	-3.0	-2.0	0.0	3.5	6.5	8.0	9.0	0.3	8.3	3.6	2.6	2.6
25	26.7	SSE	10:00	11.1	-11.0	-4.5	-3.5	-1.0	3.0	6.5	7.5	9.0	2.1	8.3	25.3	2.6	2.5
26	36.5	NW	23:18	8.5	-6.0	-3.5	-3.0	-1.5	2.5	6.5	7.5	9.0	0.5	8.3	6.1	2.7	2.6
27	34.2	NW	0:09	12.8	-7.0	-2.0	-1.5	-0.5	2.5	6.0	7.5	9.0	7.8	8.2	94.9	4.4	4.3
28	37.5	ESE	4:26	14.6	-4.0	-3.0	-2.0	-1.0	2.5	6.0	7.5	9.0	2.1	8.2	25.7	2.8	2.7
29	26.4	WNW	15:00	11.6	-3.0	-2.5	-2.0	-1.0	2.5	6.0	7.5	9.0	6.3	8.1	77.4	4.0	3.9
30	38.8	ESE	8:04	13.1	-3.0	-2.5	-2.0	-0.5	2.5	6.0	7.0	9.0	6.0	8.1	74.1	3.6	3.6
Total													122.8	263.4	46.6	127.8	75.5
Mean				13.9	-5.9	-1.0	-0.2	1.1	4.0	7.4	8.5	9.8	1991-2020 Normal				
Extreme	64.6	NW	12:51		1971- 2000 Normal for Soil Temperatures								97.4	270.2	36.0	118.5	60.8
Date	16				-2.2	-1.7	-0.5	3.0	5.6	6.8	8.1	No. of Bright Sunshine days = 22					

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

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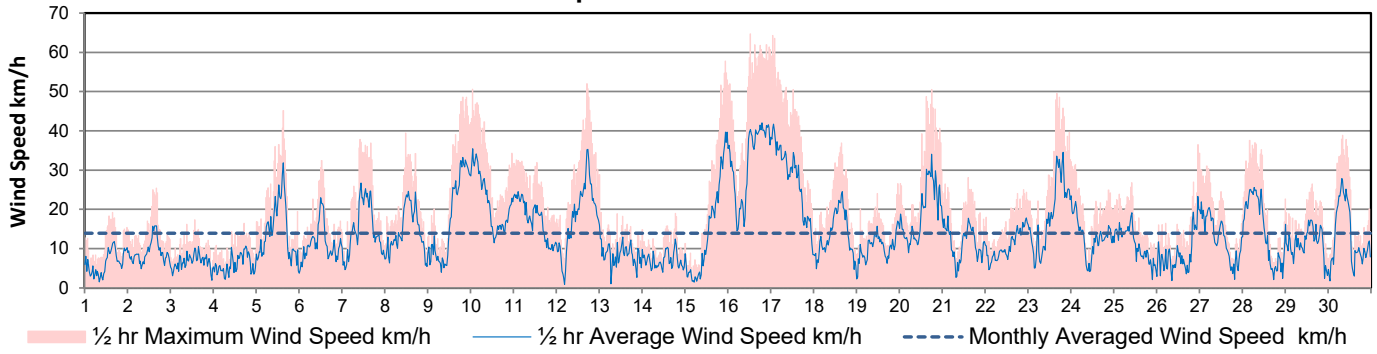


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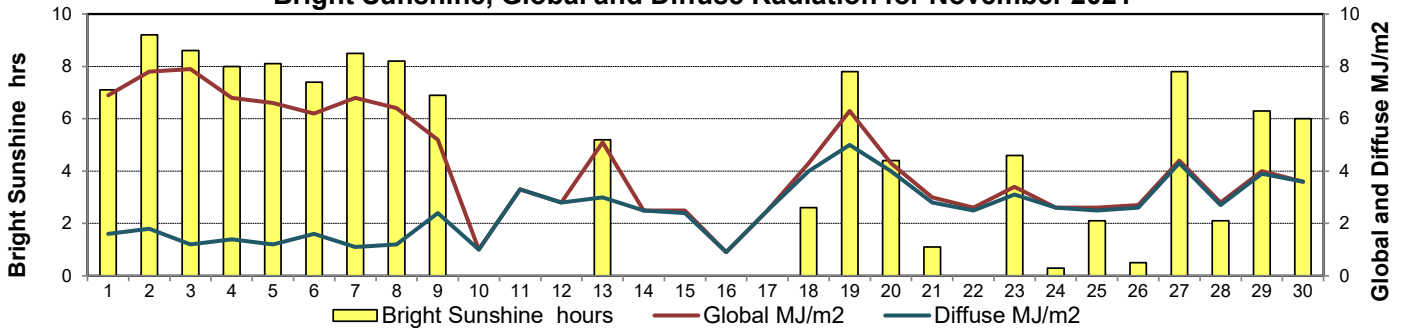
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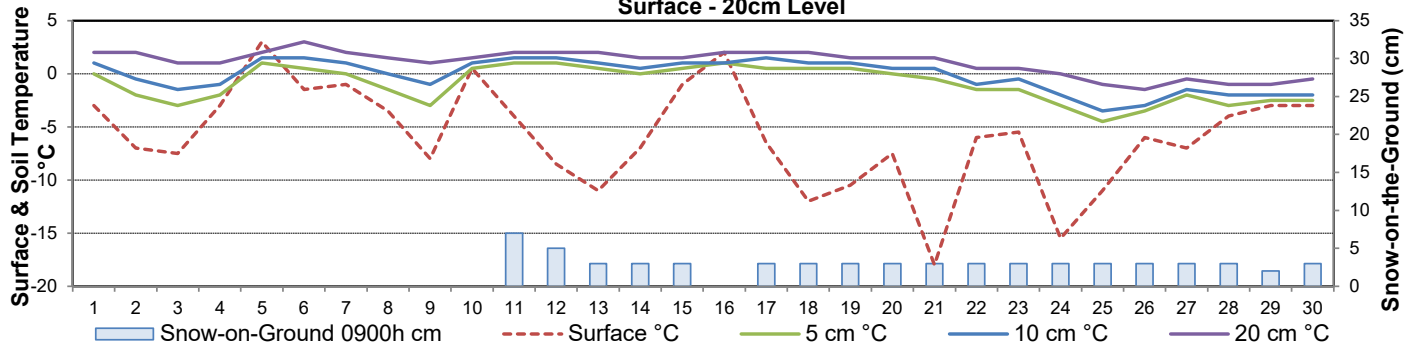
Wind Speed for November 2021



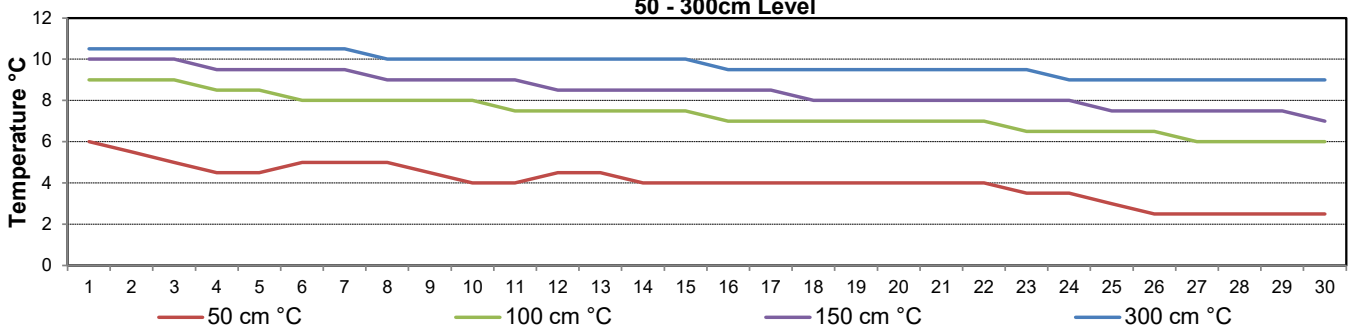
Bright Sunshine, Global and Diffuse Radiation for November 2021



Soil Temperatures for November 2021
Surface - 20cm Level



Soil Temperatures for November 2021
50 - 300cm Level





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Extreme Records for November

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
21.7	03/1903	SE	20.0	06/2016	57.3	1940	SE	48.2	1973	100 ^W	17/1976	101	1976	188.5	1976	30	1976
-39.4	30/1893	SM	-33.5	24/1985	0.0	2002*	SWT*	0.4	2009					37.2	1972	10	1972

**1975 forward * more than one year

Notable Events for CRS Saskatoon - November						Saskatoon Area Stations			Glossary		
Element	Type	Day	New Record	Old Record	Year (day)	SM	NWMP	c.	1892-1901	T	Trace of precipitation
<p>Fall 2021 (September, October, November) 5th driest fall in the last 58 years 3rd warmest fall in the last 58 years</p>	SE	Eby			1901-1941	SE	Eby		1901-1941	Normal	30 year average beginning with the decade
	US	Univ. of Sask.			1915-1964	S	Saskatoon		1941-1942	SOG	Depth of snow-on-the-ground in cm
	SA	Saskatoon A			1942 -	na				na	not available
	NRC	Nat. Res. Council			1952-1966	Degree-days Tm Mean Temperature Growing (Tm-5°C); if Tm ≤ 5°C then GDD = 0 Heating (18°C-Tm); if Tm ≤ 18°C then HDD = 0 Cooling (Tm-18°C); if Tm ≥ 18°C then CDD = 0 Extreme Cooling (Tm-24°C); if Tm ≥ 24°C then CDD = 0					
	SRC	Sask. Res. Council			1963-	Diffuse radiation shield was mis-aligned from November 19 - November 30					
	SWT	S'toon Water Treatment Plant			1974 -						
	SC	S'toon Central Ave			1974-1989						
	S1	Saskatoon 1			1976-1978						
	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						

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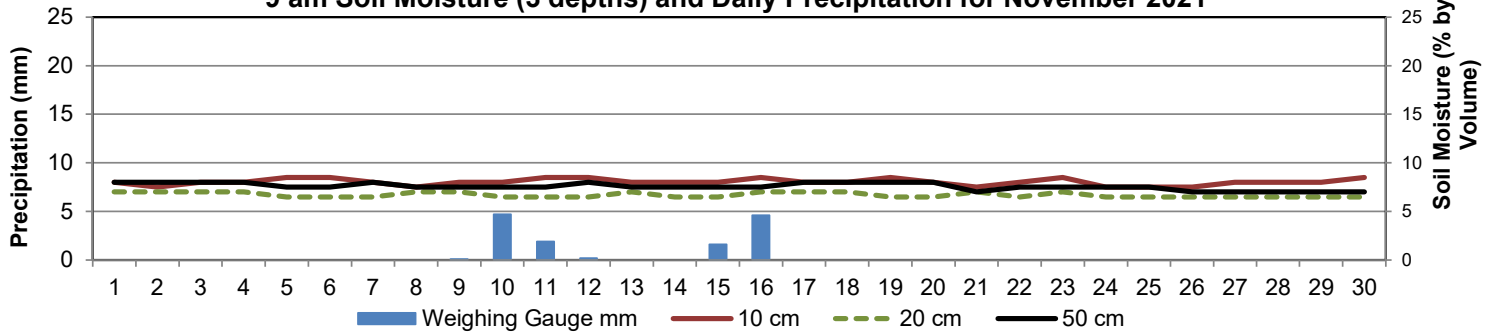
Day	2 meter Wind Speed			Soil Moisture at 0900 hrs (rounded to the 0.5%)															
	Daily Average	Max ½ hr Avg	½ hr Extreme Max	10 cm	20 cm	50 cm													
	km/h	km/h	km/h	% by volume (soil type is Loam (45.5% Sand, 41.1% Silt, 13.3% Clay))															
1	5.0	9.5	16	8.0	7.0	8.0													
2	6.0	10.4	18	7.5	7.0	8.0													
3	4.0	8.9	15	8.0	7.0	8.0													
4	4.0	8.6	14	8.0	7.0	8.0													
5	10.0	23.6	34	8.5	6.5	7.5													
6	8.0	17.3	26	8.5	6.5	7.5													
7	11.0	20.7	32	8.0	6.5	8.0													
8	10.0	19.1	29	7.5	7.0	7.5													
9	13.0	25.4	43	8.0	7.0	7.5													
10	17.0	27.0	41	8.0	6.5	7.5													
11	13.0	18.3	28	8.5	6.5	7.5													
12	14.0	27.6	45	8.5	6.5	8.0													
13	7.0	12.8	22	8.0	7.0	7.5													
14	5.0	9.8	15	8.0	6.5	7.5													
15	11.0	29.2	45	8.0	6.5	7.5													
16	24.0	32.6	53	8.5	7.0	7.5													
17	22.0	32.5	50	8.0	7.0	8.0													
18	10.0	17.2	30	8.0	7.0	8.0													
19	8.0	13.7	22	8.5	6.5	8.0													
20	15.0	26.4	42	8.0	6.5	8.0													
21	8.0	14.3	24	7.5	7.0	7.0													
22	7.0	13.3	21	8.0	6.5	7.5													
23	14.0	26.1	41	8.5	7.0	7.5													
24	10.0	18.3	26	7.5	6.5	7.5													
25	7.0	13.9	23	7.5	6.5	7.5													
26	6.0	17.8	29	7.5	6.5	7.0													
27	10.0	17.0	26	8.0	6.5	7.0													
28	11.0	19.2	32	8.0	6.5	7.0													
29	9.0	13.4	23	8.0	6.5	7.0													
30	10.0	22.2	32	8.5	6.5	7.0													
Total																			
Mean				8	7	7.6													
Extreme	24.0	32.6	52.9	8.5	7	8													
Date	16	16	16	5	1	1													

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

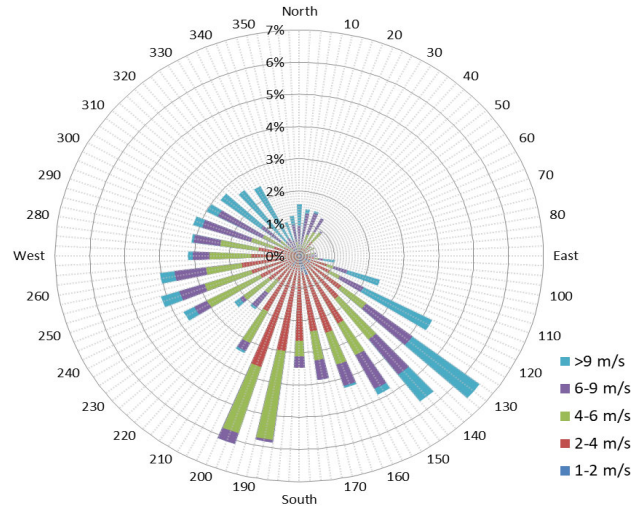
SRC proudly recognizes the following CRS supporters:



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



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



10 minute Average Wind Speed and Direction Saskatoon November 2021

