



# SRC CLIMATE REFERENCE STATION DAILY DATA REPORT

## CONSERVATION LEARNING CENTRE

Saskatchewan 53.03°N 105.77°W Estab. 2011

Preliminary

**June 2020**

Day	Temperature			Degree-days			Precipitation			Relative Humidity		Station Pressure <i>corrected to sea level</i>	
	Max	Min	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	°C	°C	5°C base	18°C base	18°C base	mm	mm		%	%	mbar	mbar
1	23.9	14.6	19.3	14.3	0.0	1.3	0.0	0.0		81	31	1007	993
2	23.0	9.6	16.3	11.3	1.7	0.0	4.3	4.8		92	28	1012	1007
3	19.7	7.9	13.8	8.8	4.2	0.0	1.5	0.8		99	47	1008	998
4	16.4	8.4	12.4	7.4	5.6	0.0	9.0	8.6		99	61	1011	1001
5	17.3	7.7	12.5	7.5	5.5	0.0	0.9	1.0		97	44	1017	1011
6	13.0	7.1	10.1	5.1	7.9	0.0	2.1	2.4		99	70	1017	1005
7	15.7	8.4	12.1	7.1	5.9	0.0	11.4	10.4		100	80	1005	992
8	13.2	5.7	9.5	4.5	8.5	0.0	0.0	0.0		100	65	1009	1000
9	20.6	6.5	13.6	8.6	4.4	0.0	0.1	0.0		97	40	1012	1010
10	22.6	7.0	14.8	9.8	3.2	0.0	2.1	1.8		96	32	1012	1009
11	17.7	7.7	12.7	7.7	5.3	0.0	0.0	0.0		95	49	1024	1012
12	24.0	5.8	14.9	9.9	3.1	0.0	0.0	0.0		94	39	1025	1017
13	29.1	14.5	21.8	16.8	0.0	3.8	0.0	0.0		69	35	1016	1004
14	27.6	13.4	20.5	15.5	0.0	2.5	8.2	7.8		94	51	1004	1001
15	20.4	10.7	15.6	10.6	2.4	0.0	0.0	0.2		97	47	1007	1002
16	25.0	9.2	17.1	12.1	0.9	0.0	0.9	0.6		98	35	1008	1006
17	15.5	7.4	11.5	6.5	6.5	0.0	23.5	20.8		98	83	1015	1005
18	14.6	6.5	10.6	5.6	7.4	0.0	0.1	0.2		98	53	1016	1015
19	10.5	6.3	8.4	3.4	9.6	0.0	1.9	2.0		96	77	1015	1010
20	13.4	5.9	9.7	4.7	8.3	0.0	0.0	0.4		99	63	1012	1010
21	19.7	3.8	11.8	6.8	6.2	0.0	0.0	0.0		100	41	1014	1011
22	24.3	5.6	15.0	10.0	3.0	0.0	0.0	0.0		98	38	1017	1014
23	27.7	9.5	18.6	13.6	0.0	0.6	0.0	0.0		99	34	1014	1009
24	28.4	16.8	22.6	17.6	0.0	4.6	0.2	0.2		96	47	1009	1004
25	27.3	15.2	21.3	16.3	0.0	3.3	0.0	0.2		100	35	1008	1005
26	21.9	11.7	16.8	11.8	1.2	0.0	1.0	0.8		94	53	1009	1004
27	19.9	12.4	16.2	11.2	1.8	0.0	18.1	17.0		100	78	1004	1000
28	19.5	11.7	15.6	10.6	2.4	0.0	0.7	0.8		100	79	1005	1001
29	20.5	14.9	17.7	12.7	0.3	0.0	0.1	0.0		97	68	1010	1005
30	16.4	13.4	14.9	9.9	3.1	0.0	11.3	10.6		100	93	1010	1003
Total				297.7	108.4	16.1	97.4	91.4					
Avg	20.3	9.5	14.9				234.7	Cumulative ppt					
Extreme	29.1	3.8					23.5	20.8		100	28	1025	992
Date	13	21					17	17		7	2	12	7

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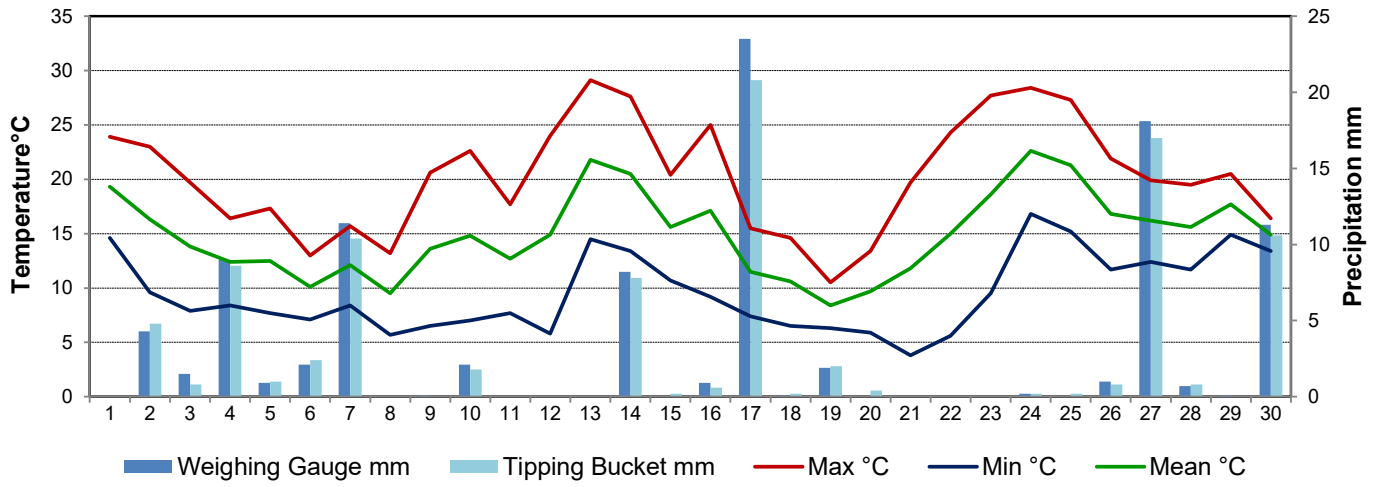


Agriculture and Agri-Food Canada

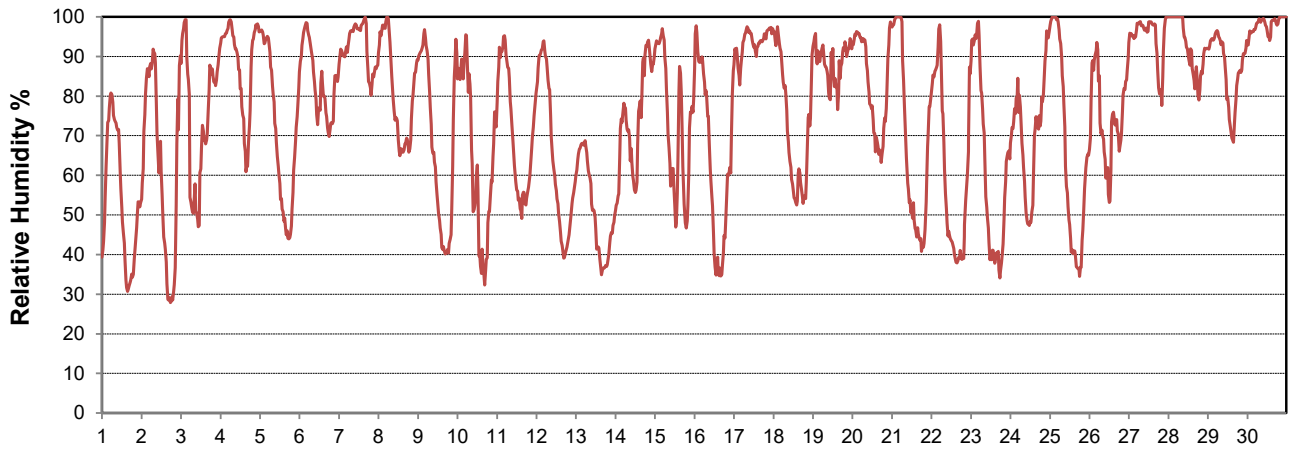
Agriculture et Agroalimentaire Canada



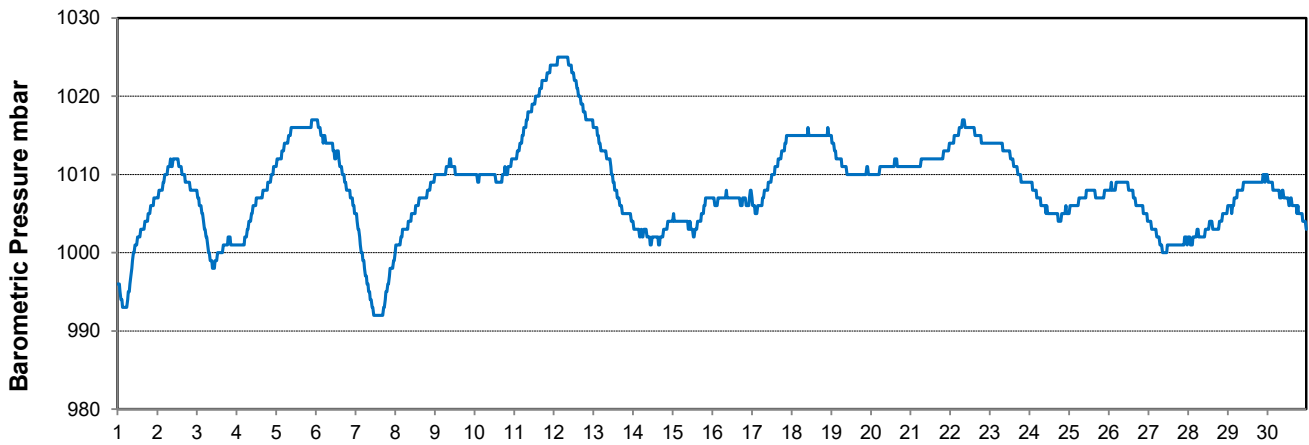
### Temperature and Precipitation for June 2020



### Relative Humidity for June 2020



### Barometric Pressure Corrected to Sea Level for June 2020





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Saskatchewan 53.03°N 105.77°W Estab. 2011

Preliminary

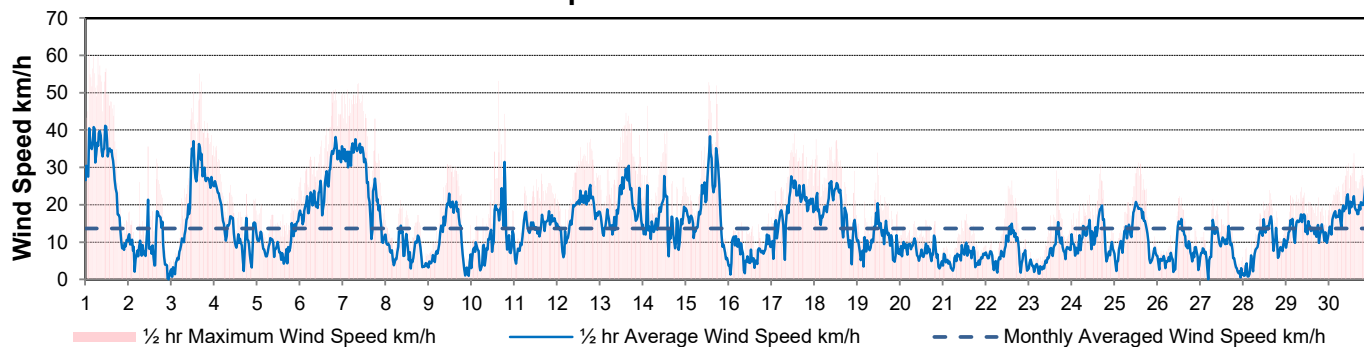
June 2020

Day	Wind Gust			Soil Temperatures at 0900hrs								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	61.4	SSW	2:14	15.5	11.0	11.0	9.5	6.5	4.0	2.0	2.5	7.4	16.6	44.6	21.2	6.3
2	35.6	N	11:17	11.5	10.5	10.5	10.0	7.0	4.0	2.5	2.5	10.7	16.7	64.3	22.9	5.6
3	55.1	WSW	16:28	15.5	11.0	11.0	10.0	7.5	4.5	2.5	2.5	3.0	16.7	18.0	12.7	8.0
4	35.7	WNW	1:36	11.0	10.5	10.5	9.5	7.5	4.5	2.5	2.5	2.2	16.7	13.2	10.3	7.0
5	24.8	E	23:40	10.5	10.5	10.5	10.0	8.0	5.0	3.0	2.5	11.9	16.7	71.1	23.1	10.3
6	50.9	E	20:10	9.5	10.5	10.5	10.0	8.0	5.0	3.0	2.5	0.4	16.8	2.4	3.8	3.4
7	52.6	E	9:28	8.5	9.0	9.0	9.0	7.5	5.0	3.0	2.0	0.4	16.8	2.4	3.7	3.2
8	21.3	NW	8:50	10.0	9.0	9.0	9.0	7.5	5.5	3.5	2.0	2.1	16.8	12.5	11.7	9.4
9	30.9	NNW	10:50	14.5	9.5	9.5	9.0	8.0	5.5	3.5	2.5	15.3	16.8	90.9	27.7	8.2
10	53.2	NW	15:10	14.0	10.0	10.5	10.0	8.0	5.5	4.0	2.5	7.2	16.8	42.8	20.0	7.1
11	28.3	ENE	15:28	12.5	11.0	11.0	10.5	8.5	6.0	4.0	2.5	13.6	16.9	80.7	25.7	9.9
12	37.7	ESE	18:53	11.0	11.0	11.0	10.5	8.5	6.0	4.0	2.5	13.5	16.9	80.0	28.2	4.5
13	44.6	ESE	14:45	20.0	12.5	12.5	11.5	9.0	6.0	4.0	2.5	8.4	16.9	49.7	20.6	10.8
14	46.4	S	2:37	20.0	14.0	14.0	12.5	9.5	6.5	4.5	3.0	4.0	16.9	23.7	12.3	7.5
15	52.8	SSW	13:20	16.5	13.0	13.0	12.0	9.5	6.5	4.5	2.5	10.8	16.9	63.9	21.9	7.8
16	17.7	S	22:54	15.0	12.0	12.5	12.0	10.0	7.0	4.5	3.0	6.0	16.9	35.5	18.8	10.0
17	39.1	N	13:19	12.5	13.5	14.0	13.0	10.0	7.0	4.5	3.0	0.0	16.9	0.0	6.0	5.3
18	37.5	NNE	1:24	9.0	11.0	11.5	11.5	9.5	7.0	4.5	2.0	2.4	16.9	14.2	13.4	11.2
19	33.9	NW	11:48	9.5	11.0	11.5	11.5	10.0	7.5	5.0	3.0	0.1	16.9	0.6	9.6	8.3
20	16.0	NE	14:29	8.0	11.0	11.0	11.0	10.0	7.5	5.0	3.0	0.9	16.9	5.3	12.3	9.9
21	17.5	NNE	13:01	13.5	10.0	10.5	11.0	10.0	7.5	5.5	3.0	14.6	16.9	86.2	27.0	8.2
22	26.5	SW	14:54	17.5	11.5	12.0	11.5	10.0	7.5	5.5	3.0	16.5	16.9	97.5	29.9	4.5
23	29.2	S	15:54	18.5	13.0	13.0	12.5	10.5	7.5	5.5	3.0	14.5	16.9	85.6	25.6	10.0
24	30.7	WNW	16:24	23.5	15.0	15.0	13.5	10.5	7.5	5.5	3.0	7.7	16.9	45.5	18.2	8.8
25	31.3	WNW	13:50	20.5	15.5	15.5	14.0	11.0	8.0	6.0	3.0	14.1	16.9	83.4	29.1	5.1
26	22.3	NNE	12:54	19.0	15.5	15.5	14.5	11.5	8.0	6.0	3.5	3.3	16.9	19.5	11.4	9.1
27	21.4	ENE	7:16	14.5	15.0	15.0	14.0	12.0	8.5	6.0	3.5	3.1	16.9	18.4	6.9	5.0
28	23.9	ENE	15:27	14.5	14.0	14.5	13.5	12.0	8.5	6.0	3.5	0.4	16.9	2.4	9.0	7.9
29	24.7	NE	8:30	15.0	15.0	15.0	14.0	11.5	8.5	6.0	3.5	1.2	16.9	7.1	11.9	9.9
30	33.8	ENE	14:08	14.0	15.0	15.0	14.0	11.5	8.5	6.0	3.0	0.0	16.9	0.0	3.7	3.3
Total												195.7	505.5	38.7	498.6	225.5
Mean				14.2	12.0	12.2	11.5	9.4	6.5	4.4	2.8					
Extreme	61.4	SSW	2:14													
Date	1															

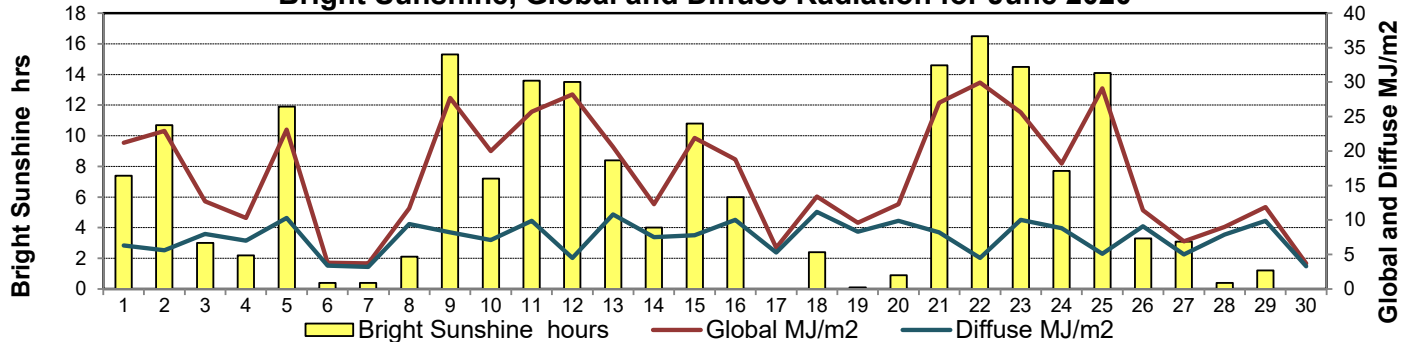
### GLOSSARY OF TERMS

<b>Degree-days</b>	<b>Radiation</b>
Tm Mean Temperature	Bright Sunshine is the unobstructed direct radiation from the sun, as opposed to the shading of a location by clouds or by other atmospheric obstructions.
Growing (Tm-5°C); if Tm ≤ 5°C then GDD = 0	
Heating (18°C-Tm); if Tm ≥ 18°C then HDD = 0	Diffuse is radiation reaching the earth's surface after having been scattered from the direct solar beam
Cooling (Tm-18°C); if Tm ≤ 18°C then CDD = 0	Global is the sum of the direct solar and diffuse radiation
T Trace of Precipitation	<b>Relative Humidity</b> The ratio of the air's water vapour content of its water vapour capacity which changes with temperature.
<b>SOG</b> Depth of snow-on-the-ground	
<b>Red Cell</b> no data available	<b>Air Pressure</b> The force exerted by the weight of a column of air above a given point
<b>Red Number</b> manual calculation	<b>Wind Gust</b> The daily highest instantaneous value recorded irrespective of direction and/or duration

### Wind Speed for June 2020

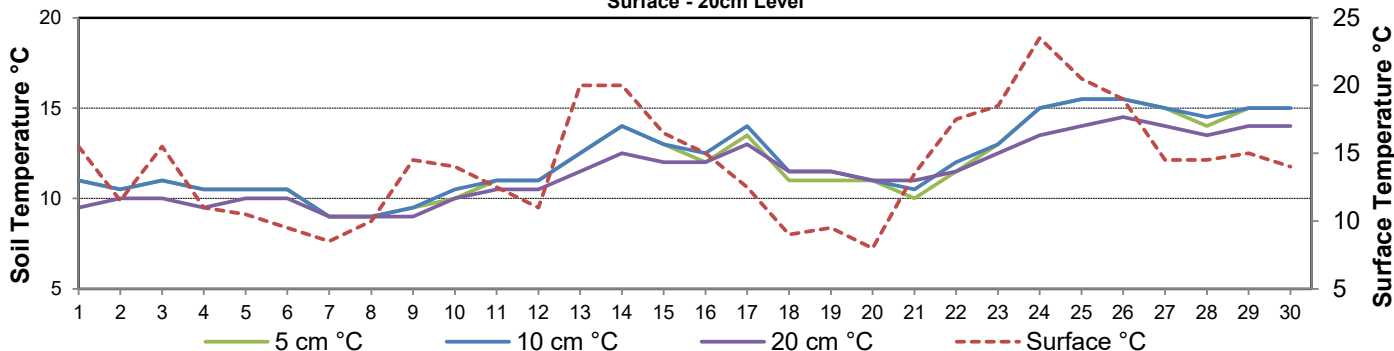


### Bright Sunshine, Global and Diffuse Radiation for June 2020



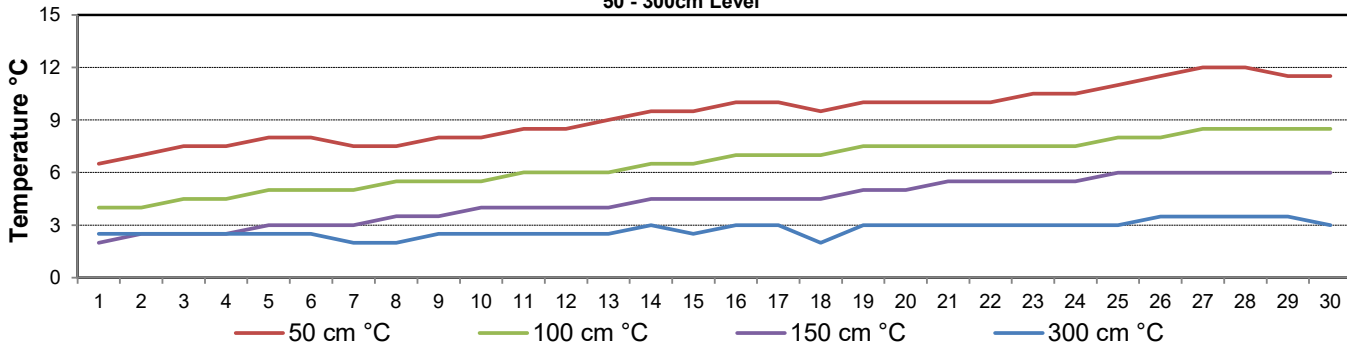
### Soil Temperatures for June 2020

Surface - 20cm Level



### Soil Temperatures for June 2020

50 - 300cm Level





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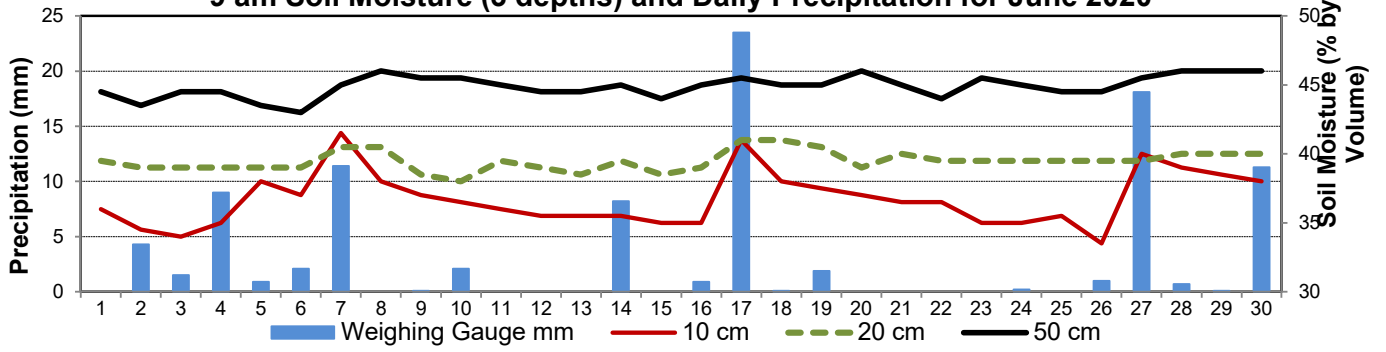
June 2020

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 Clay Loam)									
1	22.0	32.4	48.3	36.0	39.5	44.5							
2	7.0	17.2	28.5	34.5	39.0	43.5							
3	15.0	28.5	48.3	34.0	39.0	44.5							
4	11.0	20.0	27.5	35.0	39.0	44.5							
5	8.0	13.5	18.5	38.0	39.0	43.5							
6	20.0	29.3	41.4	37.0	39.0	43.0							
7	21.0	28.6	40.8	41.5	40.5	45.0							
8	7.0	11.5	17.0	38.0	40.5	46.0							
9	9.0	18.0	25.2	37.0	38.5	45.5							
10	9.0	23.9	40.4	36.5	38.0	45.5							
11	11.0	14.1	25.0	36.0	39.5	45.0							
12	12.0	15.7	26.4	35.5	39.0	44.5							
13	12.0	18.9	30.2	35.5	38.5	44.5							
14	11.0	20.3	32.5	35.5	39.5	45.0							
15	15.0	30.6	42.5	35.0	38.5	44.0							
16	6.0	8.7	13.9	35.0	39.0	45.0							
17	14.0	20.8	30.2	41.0	41.0	45.5							
18	14.0	20.2	29.1	38.0	41.0	45.0							
19	9.0	16.0	26.0	37.5	40.5	45.0							
20	7.0	9.1	13.7	37.0	39.0	46.0							
21	5.0	8.8	15.2	36.5	40.0	45.0							
22	6.0	13.1	25.2	36.5	39.5	44.0							
23	5.0	11.5	23.7	35.0	39.5	45.5							
24	9.0	15.6	23.9	35.0	39.5	45.0							
25	9.0	16.7	27.3	35.5	39.5	44.5							
26	6.0	12.2	18.5	33.5	39.5	44.5							
27	6.0	12.3	16.6	40.0	39.5	45.5							
28	6.0	13.1	17.9	39.0	40.0	46.0							
29	10.0	13.5	18.9	38.5	40.0	46.0							
30	14.0	19.1	25.8	38.0	40.0	46.0							
Total													
Mean				37	40	44.9							
Extreme	22.0	32.4	48.3	41.5	41	46							
Date	0	0	0	New Record	0	0							

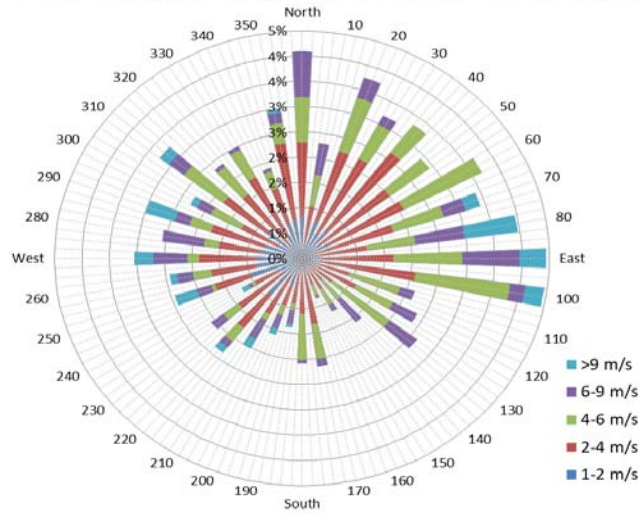
**SRC proudly recognizes the following CRS supporters:**



### 9 am Soil Moisture (3 depths) and Daily Precipitation for June 2020



### 10 minute Average Wind Speed and Direction CLC June 2020



### 1/2 hr Maximum Wind Speed and Direction CLC June 2020

