



Santa Fe Trail Ranch

Climatological Data
for

2024

The climatological data in this document represents a compilation of the Weather Stats pages from the original Santa Fe Trail Ranch web site and continuing data collection since moving to the new SFTR web site.

Until April 2012, longtime resident Walt Wolff collected and posted daily weather data. But the wintery weather and work associated with maintaining the beautiful Loma Lobo property caused Joyce and Walt to switch to part-time status. Walt gave Robert L. Scott the weather equipment and Bob posted the weather updates until his equipment failed in January 2018. Since then, the data has come from the StargateCOlorado weather station (same type of equipment that Walt/Bob used) maintained by Ernie Parker / Sharon Sorenson.

The data is broken into two sections: the charts in the first section are a synopsis of the weather on the Ranch. For more detailed data (and an aid to help you sleep!), see the monthly climatological tables in the second section.

Notes:

- The StargateCOlorado weather station is at the south end of the Ranch and at a higher elevation than the station maintained by Walt Wolff & Bob Scott. As a result, you will find that, on average, the temperature readings will be slightly lower, and the precipitation readings will be slightly higher than those reported by Bob/Walt's stations.
- The data shown on the various pages starts at a high level and gets more detailed the further down you go.
 - The highest-level charts show the precipitation, snow, temperature, and winds for the entire year.
 - The middle-level charts show the temperature and winds for each month of the year.
 - The lowest-level tables provide all the data collected by the weather station.
 - The snow data has only been collected since 2015 by Ernie / Sharon and does not come from the weather station.
 - What's the definition of "Mean Temperature"? Unlike most weather information, where the "Average Temperature" is just the average of the highest and lowest temperatures of the day, the weather station captures the temperature every 15 minutes, collecting 96 readings per day. The "Mean Temperature" is the average of all 96 readings, giving you a more accurate value.
- Prior to 2022, the times shown in the climatological tables are based on a 12-hour (AM/PM) clock. Starting in 2022, the times listed are based on a 24-hour clock. The data collection program suddenly switched modes.

Enjoy!!

--Ernie Parker

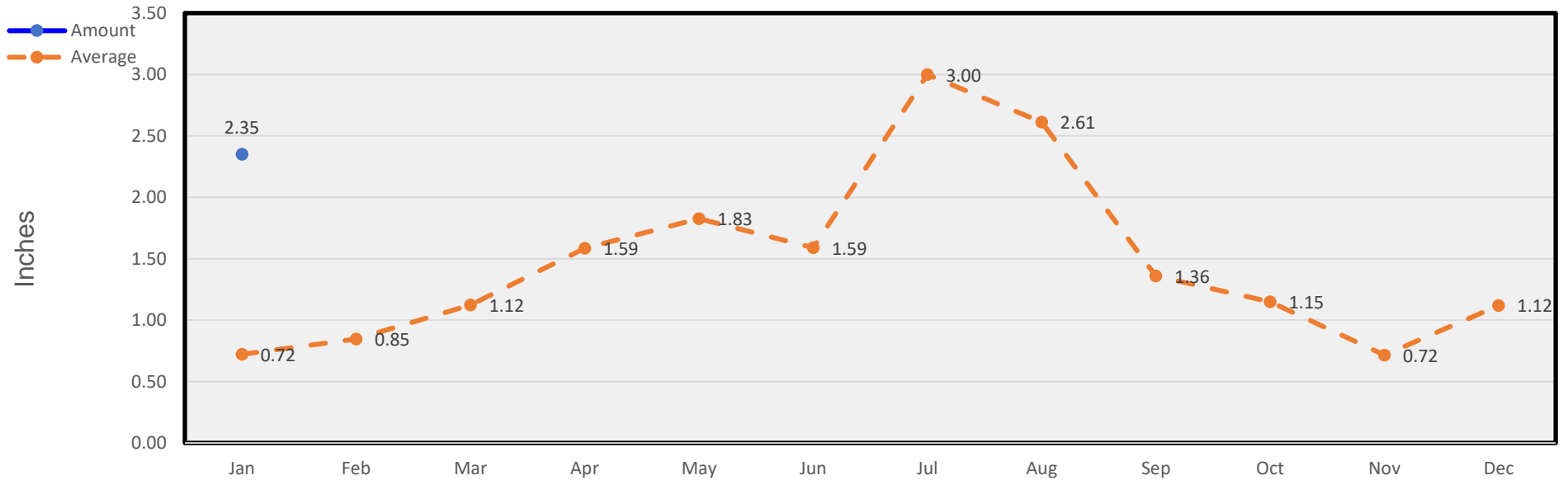
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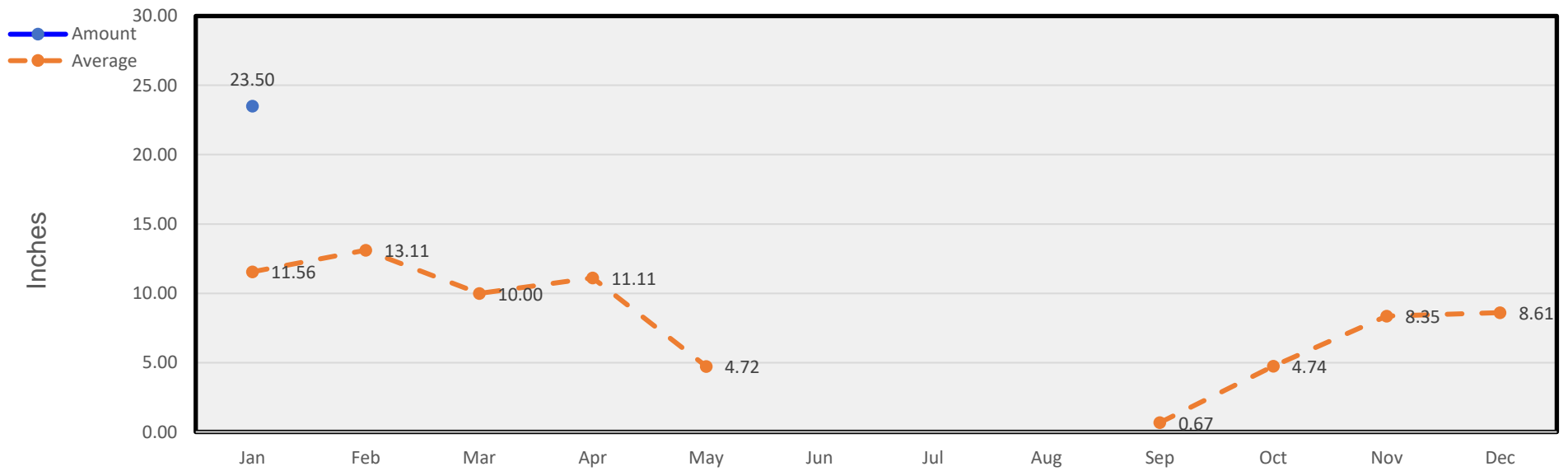
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Charts

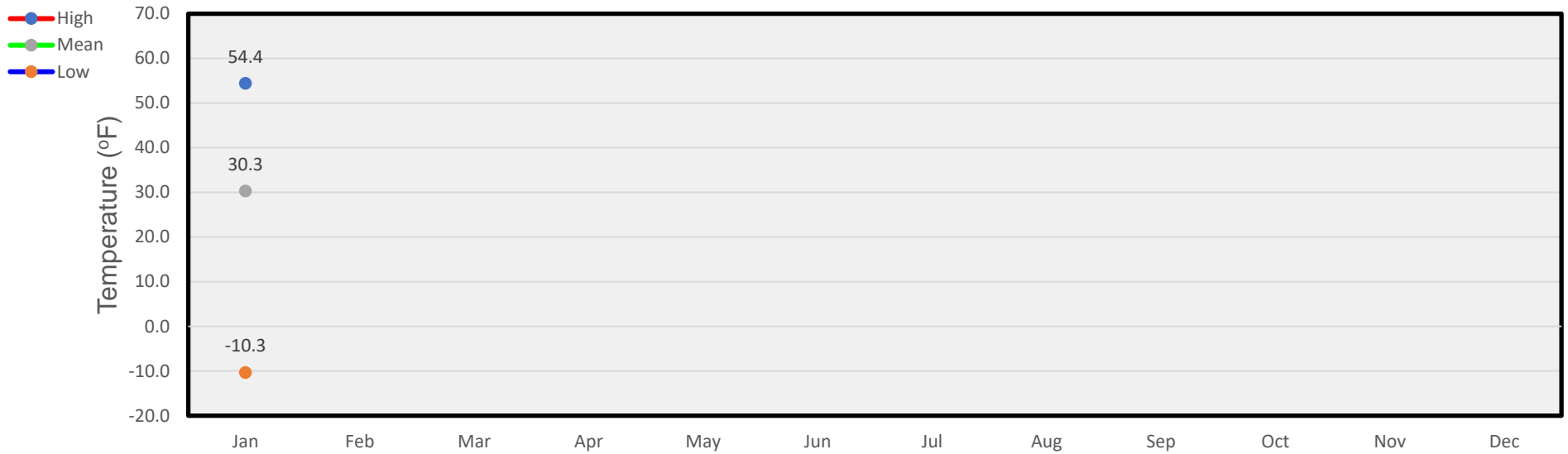
Monthly Precipitation



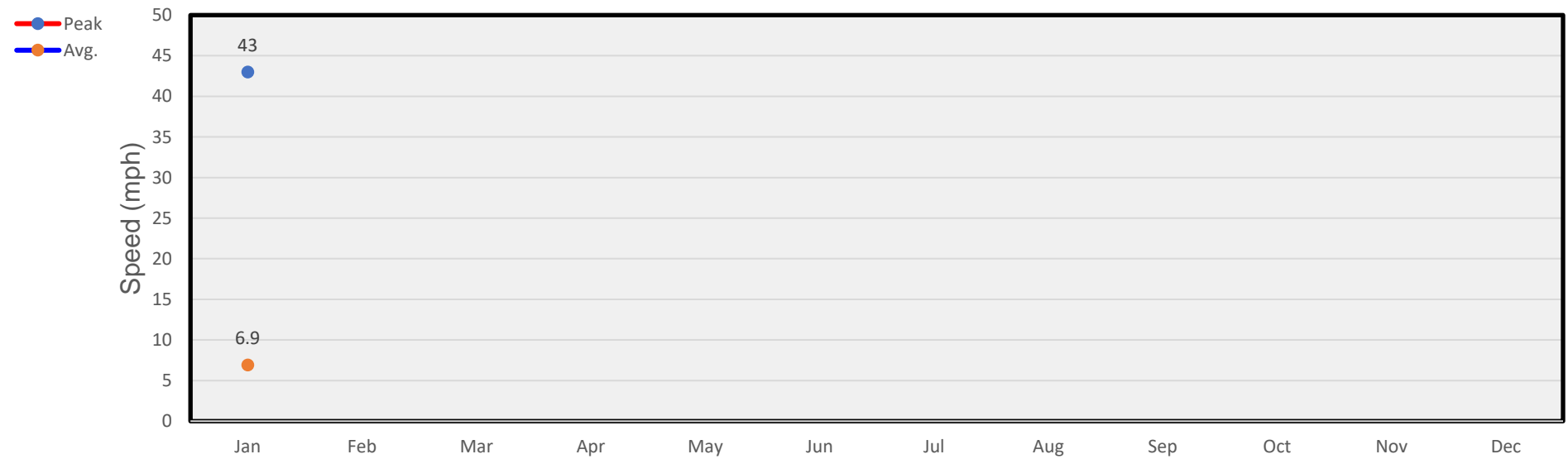
Monthly Snow



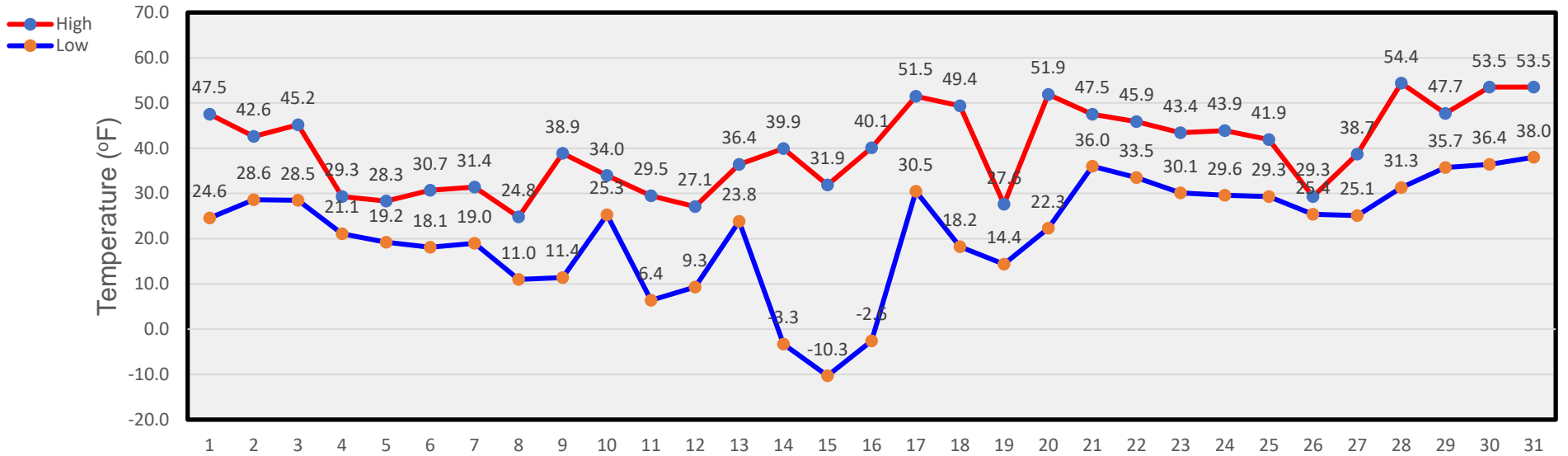
Monthly Temperatures



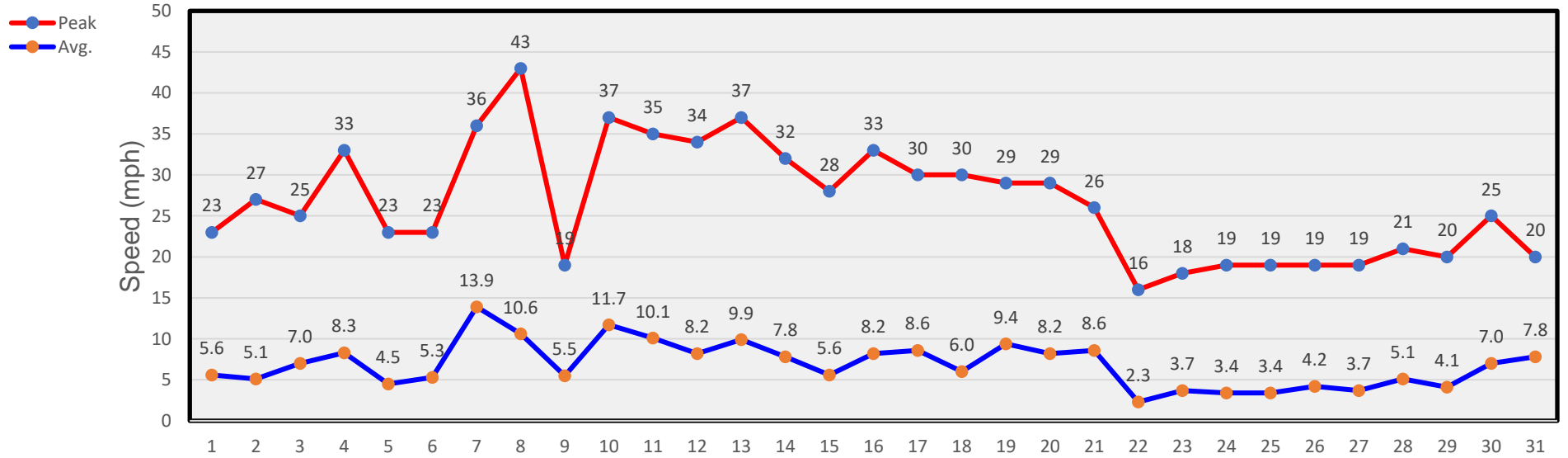
Monthly Winds



January Temperatures



January Winds



February Temperatures

February Winds

March Temperatures

March Winds

April Temperatures

April Winds

May Temperatures

May Winds

June Temperatures

June Winds

July Temperatures

July Winds

August Temperatures

August Winds

September Temperatures

September Winds

October Temperatures

October Winds

November Temperatures

November Winds

December Temperatures

December Winds

Tables

January

Day	Mean Temp.	High Temp.	High Temp. Time	Low Temp.	Low Temp. Time	Heat Degree Days	Cool Degree Days	Precip.	Average Wind Speed	Peak Wind Speed	Peak Wind Time	Wind Dominant Direction
1	36.1	47.5	13:00	24.6	02:00	28.9			5.6	23	00:30	SSW
2	34.2	42.6	13:45	28.6	07:30	30.8			5.1	27	22:00	N
3	35.1	45.2	12:30	28.5	01:15	29.9			7.0	25	23:30	S
4	25.5	29.3	00:15	21.1	23:45	39.6		0.55	8.3	33	02:30	S
5	22.8	28.3	13:45	19.2	23:30	42.2			4.5	23	05:00	NE
6	22.8	30.7	15:30	18.1	09:30	42.2		0.15	5.3	23	22:15	NNE
7	24.2	31.4	12:30	19.0	06:00	40.8			13.9	36	13:00	SW
8	15.1	24.8	00:30	11.0	23:00	49.9		1.0	10.6	43	10:00	NE
9	26.8	38.9	12:30	11.4	00:15	38.2			5.5	19	14:15	SSE
10	29.0	34.0	15:45	25.3	07:15	36.0			11.7	37	03:00	W
11	21.0	29.5	13:00	6.4	23:00	41.7			10.1	35	05:30	W
12	19.1	27.1	15:15	9.3	04:00	42.6		.05	8.2	34	13:45	WNW
13	29.6	36.4	15:15	23.8	07:15	35.4			9.9	37	01:45	WNW
14	21.8	39.9	11:00	-3.3	06:00	43.2			7.8	32	11:30	NW
15	7.6	31.9	03:30	-10.3	19:00	57.4			5.6	28	23:00	NE
16	21.1	40.1	16:00	-2.6	00:15	43.9			8.2	33	01:00	S
17	40.3	51.5	12:15	30.5	00:15	24.7			8.6	30	14:45	SSW
18	34.6	49.4	15:15	18.2	22:00	30.4			6.0	30	13:15	N
19	20.7	27.6	15:00	14.4	07:30	44.3			9.4	29	06:15	SSE
20	36.5	51.9	13:00	22.3	00:30	28.5			8.2	29	15:00	SSW
21	40.4	47.5	13:30	36.0	20:15	24.6			8.6	26	00:30	SW
22	39.1	45.9	12:45	33.5	23:45	25.9			2.3	16	13:45	W
23	35.8	43.4	14:45	30.1	00:00	29.2			3.7	18	15:45	NNW
24	35.3	43.9	12:15	29.6	00:45	29.7			3.4	19	03:00	S
25	34.3	41.9	11:45	29.3	00:00	30.7			3.4	19	14:45	WSW
26	27.3	29.3	00:15	25.4	23:00	37.7		0.6	4.2	19	8:15	NNE
27	31.2	38.7	16:15	25.1	05:15	33.8			3.7	19	20:30	NNW
28	43.9	54.4	12:45	31.3	00:15	21.1			5.1	21	13:15	E
29	41.7	47.7	12:00	35.7	22:45	23.3			4.1	20	13:45	S
30	43.7	53.5	13:30	36.4	00:15	21.3			7.0	25	22:15	S
31	44.1	53.5	16:00	38.0	05:15	20.9			7.8	20	01:45	SSW
--	30.3 ¹	54.4 ³	28 th	-10.3 ³	15 th	1068.0 ²	0.0 ²	2.35 ²	6.9 ¹	43 ³	8 th	SSW

Footnotes: 1. Average; 2. Sum (total); 3. Max or Min
Heat Base: 65.0 Cool Base: 65.0
Method: (High + Low) / 2 (per ¼ hour)

- 4th: 5 ½" of soft snow
- 6th: Another 1 ½" of wetter snow
- 8th: Another 10" of BLIZZARD snow
- 12th: Another ½" of snow
- 26th: Another 6" of fairly light snow

- 31st: We had 23 ½" of snow for the month – the highest I've recorded since I started measuring snow amounts in 2015. The mean temperature for the month was about 2 ½ degrees below normal.

February

Day	Mean Temp.	High Temp.	High Temp. Time	Low Temp.	Low Temp. Time	Heat Degree Days	Cool Degree Days	Precip.	Average Wind Speed	Peak Wind Speed	Peak Wind Time	Wind Dominant Direction
1												
2												
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28												
29												
--	XX.X ¹	XX.X ³	X th	XX.X ³	X th	XXX.X ²	XXX.X ²	XX.XX ²	XX.X ¹	XX ³	X th	XXX

Footnotes: 1. Average; 2. Sum (total); 3. Max or Min •

Heat Base: 65.0 Cool Base: 65.0 •

Method: (High + Low) / 2 (per ¼ hour)

March

Day	Mean Temp.	High Temp.	High Temp. Time	Low Temp.	Low Temp. Time	Heat Degree Days	Cool Degree Days	Precip.	Average Wind Speed	Peak Wind Speed	Peak Wind Time	Wind Dominant Direction
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29												
30												
31												
--	XX.X ¹	XX.X ³	X th	XX.X ³	X th	XXX.X ²	XXX.X ²	XX.XX ²	XX.X ¹	XX ³	X th	XXX

Footnotes: 1. Average; 2. Sum (total); 3. Max or Min •

Heat Base: 65.0 Cool Base: 65.0 •

Method: (High + Low) / 2 (per ¼ hour)

April

Day	Mean Temp.	High Temp.	High Temp. Time	Low Temp.	Low Temp. Time	Heat Degree Days	Cool Degree Days	Precip.	Average Wind Speed	Peak Wind Speed	Peak Wind Time	Wind Dominant Direction
1												
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27												
28												
29												
30												
--	XX.X ¹	XX.X ³	X th	XX.X ³	X th	XXX.X ²	XXX.X ²	XX.XX ²	XX.X ¹	XX ³	X th	XXX

Footnotes: 1. Average; 2. Sum (total); 3. Max or Min •

Heat Base: 65.0 Cool Base: 65.0 •

Method: (High + Low) / 2 (per ¼ hour)

May

Day	Mean Temp.	High Temp.	High Temp. Time	Low Temp.	Low Temp. Time	Heat Degree Days	Cool Degree Days	Precip.	Average Wind Speed	Peak Wind Speed	Peak Wind Time	Wind Dominant Direction
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29												
30												
31												
--	XX.X ¹	XX.X ³	X th	XX.X ³	X th	XXX.X ²	XXX.X ²	XX.XX ²	XX.X ¹	XX ³	X th	XXX

Footnotes: 1. Average; 2. Sum (total); 3. Max or Min •

Heat Base: 65.0 Cool Base: 65.0 •

Method: (High + Low) / 2 (per ¼ hour)

June

Day	Mean Temp.	High Temp.	High Temp. Time	Low Temp.	Low Temp. Time	Heat Degree Days	Cool Degree Days	Precip.	Average Wind Speed	Peak Wind Speed	Peak Wind Time	Wind Dominant Direction
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26												
27												
28												
29												
30												
--	XX.X ¹	XX.X ³	X th	XX.X ³	X th	XXX.X ²	XXX.X ²	XX.XX ²	XX.X ¹	XX ³	X th	XXX

Footnotes: 1. Average; 2. Sum (total); 3. Max or Min •

Heat Base: 65.0 Cool Base: 65.0 •

Method: (High + Low) / 2 (per ¼ hour)

July

Day	Mean Temp.	High Temp.	High Temp. Time	Low Temp.	Low Temp. Time	Heat Degree Days	Cool Degree Days	Precip.	Average Wind Speed	Peak Wind Speed	Peak Wind Time	Wind Dominant Direction
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27												
28												
29												
30												
31												
--	XX.X ¹	XX.X ³	X th	XX.X ³	X th	XXX.X ²	XXX.X ²	XX.XX ²	XX.X ¹	XX ³	X th	XXX

Footnotes: 1. Average; 2. Sum (total); 3. Max or Min •

Heat Base: 65.0 Cool Base: 65.0

Method: (High + Low) / 2 (per ¼ hour)

August

Day	Mean Temp.	High Temp.	High Temp. Time	Low Temp.	Low Temp. Time	Heat Degree Days	Cool Degree Days	Precip.	Average Wind Speed	Peak Wind Speed	Peak Wind Time	Wind Dominant Direction
1												
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28												
29												
30												
31												
--	XX.X ¹	XX.X ³	X th	XX.X ³	X th	XXX.X ²	XXX.X ²	XX.XX ²	XX.X ¹	XX ³	X th	XXX

Footnotes: 1. Average; 2. Sum (total); 3. Max or Min •
Heat Base: 65.0 Cool Base: 65.0
Method: (High + Low) / 2 (per ¼ hour)

September

Day	Mean Temp.	High Temp.	High Temp. Time	Low Temp.	Low Temp. Time	Heat Degree Days	Cool Degree Days	Precip.	Average Wind Speed	Peak Wind Speed	Peak Wind Time	Wind Dominant Direction
1												
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27												
28												
29												
30												
--	XX.X ¹	XX.X ³	X th	XX.X ³	X th	XXX.X ²	XXX.X ²	XX.XX ²	XX.X ¹	XX ³	X th	XXX

Footnotes: 1. Average; 2. Sum (total); 3. Max or Min •

Heat Base: 65.0 Cool Base: 65.0 •

Method: (High + Low) / 2 (per ¼ hour)

October

Day	Mean Temp.	High Temp.	High Temp. Time	Low Temp.	Low Temp. Time	Heat Degree Days	Cool Degree Days	Precip.	Average Wind Speed	Peak Wind Speed	Peak Wind Time	Wind Dominant Direction
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31												
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Footnotes: 1. Average; 2. Sum (total); 3. Max or Min •
Heat Base: 65.0 Cool Base: 65.0
Method: (High + Low) / 2 (per ¼ hour)

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November

Day	Mean Temp.	High Temp.	High Temp. Time	Low Temp.	Low Temp. Time	Heat Degree Days	Cool Degree Days	Precip.	Average Wind Speed	Peak Wind Speed	Peak Wind Time	Wind Dominant Direction
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29												
30												
--	XX.X ¹	XX.X ³	X th	XX.X ³	X th	XXX.X ²	XXX.X ²	XX.XX ²	XX.X ¹	XX ³	X th	XXX

Footnotes: 1. Average; 2. Sum (total); 3. Max or Min •

Heat Base: 65.0 Cool Base: 65.0 •

Method: (High + Low) / 2 (per ¼ hour)

December

Day	Mean Temp.	High Temp.	High Temp. Time	Low Temp.	Low Temp. Time	Heat Degree Days	Cool Degree Days	Precip.	Average Wind Speed	Peak Wind Speed	Peak Wind Time	Wind Dominant Direction
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30												
31												
--	XX.X ¹	XX.X ³	X th	XX.X ³	X th	XXX.X ²	XXX.X ²	XX.XX ²	XX.X ¹	XX ³	X th	XXX

Footnotes: 1. Average; 2. Sum (total); 3. Max or Min •
Heat Base: 65.0 Cool Base: 65.0
Method: (High + Low) / 2 (per ¼ hour)

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