

**Summary of Monthly Normals**  
**1991-2020**  
 Generated on 10/18/2021

Temperature (°F)																						
Mean							Cooling Degree Days						Heating Degree Days				Mean Number of Days					
							Base (above)						Base (above)									
Month	Daily Max	Daily Min	Mean	Long Term Max Std Dev	Long Term Min Std Dev	Long Term Avg Std Dev	55	57	60	65	70	72	55	57	60	65	Max >= 100	Max >= 90	Max >= 50	Max <= 32	Min <= 32	Min <= 0
01	40.1	19.8	30.0	4.6	4.0	4.1	1.1	0.7	0.3	0.0	0.0	0.0	777.4	838.9	931.6	1086.2	0.0	0.0	8.4	7.7	27.3	1.2
02	45.7	23.5	34.6	5.8	4.5	5.0	3.6	1.9	0.7	0.1	0.0	0.0	574.7	629.1	711.8	851.2	0.0	0.0	11.7	4.6	22.3	0.6
03	56.4	33.2	44.8	4.9	4.7	4.6	33.3	23.0	12.4	3.4	0.4	0.2	349.6	401.3	483.6	629.7	0.0	0.0	22.0	1.1	14.9	0.2
04	66.2	43.2	54.7	4.1	3.5	3.6	115.1	87.4	53.7	18.7	4.0	1.8	124.0	156.3	212.7	327.7	0.0	0.1	27.8	0.0	4.5	0.0
05	75.7	55.0	65.3	3.4	3.0	3.0	335.0	281.5	208.6	110.3	42.4	25.1	14.2	22.6	42.7	99.5	0.0	1.0	30.9	0.0	0.1	0.0
06	84.7	64.9	74.8	2.8	2.0	2.2	593.9	534.2	445.0	299.8	167.4	121.7	0.1	0.3	1.2	6.0	0.0	8.6	30.0	0.0	0.0	0.0
07	89.5	69.1	79.3	3.3	2.7	2.8	753.1	691.2	598.2	443.3	292.0	234.1	0.0	0.0	0.0	0.1	2.1	16.6	31.0	0.0	0.0	0.0
08	88.4	66.4	77.4	3.9	2.9	3.2	694.2	632.2	539.3	385.5	240.5	188.4	0.0	0.0	0.1	1.3	2.0	15.2	31.0	0.0	0.0	0.0
09	80.8	57.4	69.1	3.6	3.2	3.2	427.8	371.2	289.8	170.9	83.3	57.6	4.9	8.3	16.9	48.0	0.4	4.9	30.0	0.0	0.1	0.0
10	70.0	45.0	57.5	3.7	2.6	2.8	163.7	128.7	85.4	35.3	10.0	5.5	86.2	113.2	162.9	267.8	0.0	0.4	29.7	0.0	3.3	0.0
11	55.8	33.5	44.7	5.5	4.0	4.4	27.6	18.5	9.2	2.0	0.3	0.1	338.0	388.9	469.6	612.4	0.0	0.0	21.5	0.8	14.3	0.0
12	44.6	24.5	34.5	4.4	4.0	4.0	3.6	2.1	1.0	0.1	0.0	0.0	637.4	697.9	789.8	943.9	0.0	0.0	11.8	4.8	24.0	0.5
Summary	66.5	44.6	55.6	4.2	3.4	3.6	3152	2773	2244	1469	840	634	2906	3257	3823	4874	4.5	46.8	285.8	19.0	110.8	2.5

Empty or blank cells indicate data is missing or insufficient occurrences to compute value

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Precipitation (in.)								
	Totals	Mean Number of Days				Precipitation Probabilities Probability that precipitation will be equal to or less than the indicated amount		
	Means	Daily Precipitation				Monthly Precipitation vs. Probability Levels		
Month	Mean	>= 0.01	>= 0.10	>= 0.50	>= 1.00	0.25	0.50	0.75
01	1.61	7.2	3.7	0.9	0.3	0.82	1.31	2.14
02	1.95	6.8	3.8	1.3	0.5	0.86	2.03	2.50
03	2.76	9.2	5.7	1.8	0.5	1.65	2.54	3.56
04	4.55	10.7	7.0	3.2	1.3	2.93	4.19	5.07
05	6.26	12.5	8.1	3.9	1.7	3.57	5.57	9.10
06	5.62	10.1	6.9	3.5	2.1	3.54	5.56	7.00
07	4.37	8.9	6.7	2.8	1.1	2.29	3.32	5.97
08	3.75	8.2	5.4	2.7	1.2	2.50	3.46	4.56
09	4.31	7.9	5.5	2.7	1.5	2.34	3.72	5.10
10	3.45	8.7	5.6	2.2	1.1	1.78	3.64	4.86
11	2.86	7.6	4.9	1.7	0.9	1.21	2.01	3.71
12	2.10	6.8	3.7	1.7	0.5	0.86	1.74	3.12
Summary	43.59	104.6	67.0	28.4	12.7	24.35	39.09	56.69

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U.S. Department of Commerce  
 National Oceanic & Atmospheric Administration  
 National Environmental Satellite, Data, and Information Service  
 Current Location: Elev: 790 ft. Lat: 38.2611° N Lon: -94.4050° W  
 Station: **BUTLER 4W, MO US USC00231145**

**Summary of Monthly Normals**  
**1991-2020**  
 Generated on 10/18/2021

National Centers for Environmental Information  
 151 Patton Avenue  
 Asheville, North Carolina 28801

Snow (in.)													
	Totals	Mean Number of Days									Snow Probabilities Probability that snow will be equal to or less than the indicated amount		
	Means	Snowfall >= Thresholds					Snow Depth >= Thresholds				Monthly Snow vs. Probability Levels Values derived from the incomplete gamma distribution.		
Month	Snowfall Mean	0.01	1.0	3.0	5.00	10.00	1	3	5	10	.25	.50	.75
01	2.6	1.7	0.9	0.2	0.1	0.0	3.6	1.5	0.8	0.2	0.0	0.7	3.3
02	3.0	1.8	1.1	0.5	0.1	0.0	3.5	1.6	0.8	0.3	0.0	0.1	4.5
03	1.2	0.6	0.3	0.1	0.1	0.0	0.9	0.6	0.2	0.0	0.0	0.0	0.1
04	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
06	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
07	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
08	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
09	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.3	0.3	0.2	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0
12	2.4	1.4	0.6	0.3	0.1	0.0	2.2	1.7	0.7	0.1	0.0	0.5	3.1
Summary	9.5	6.0	3.1	1.1	0.4	0.0	10.4	5.4	2.5	0.6	0.0	1.3	11.0

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## Summary of Monthly Normals 1991-2020

Generated on 10/18/2021

National Centers for Environmental Information  
 151 Patton Avenue  
 Asheville, North Carolina 28801

<b>Growing Degree Units (Monthly)</b>												
<b>Base</b>	<b>Jan</b>	<b>Feb</b>	<b>Mar</b>	<b>Apr</b>	<b>May</b>	<b>Jun</b>	<b>Jul</b>	<b>Aug</b>	<b>Sep</b>	<b>Oct</b>	<b>Nov</b>	<b>Dec</b>
40	31.3	66.0	222.4	451.0	785.9	1043.7	1218.0	1159.1	872.9	546.8	210.2	59.4
45	11.4	31.2	132.8	319.1	631.4	893.8	1063.1	1004.2	723.0	402.0	122.5	26.0
50	3.7	12.5	70.4	204.0	478.8	743.9	908.2	849.3	573.9	272.2	63.6	10.5
55	1.1	3.6	33.3	115.1	335.0	593.9	753.1	694.2	427.8	163.7	27.6	3.6
60	0.3	0.7	12.4	53.7	208.6	445.0	598.2	539.3	289.8	85.4	9.2	1.0
<b>Growing Degree Units for Corn (Monthly)</b>												
50/86	26.3	53.0	149.8	272.7	497.1	717.5	837.3	782.8	571.2	345.7	131.9	42.4

<b>Growing Degree Units (Accumulated Monthly)</b>												
<b>Base</b>	<b>Jan</b>	<b>Feb</b>	<b>Mar</b>	<b>Apr</b>	<b>May</b>	<b>Jun</b>	<b>Jul</b>	<b>Aug</b>	<b>Sep</b>	<b>Oct</b>	<b>Nov</b>	<b>Dec</b>
40	31	97	320	771	1557	2600	3818	4977	5850	6397	6607	6667
45	11	43	175	494	1126	2020	3083	4087	4810	5212	5334	5360
50	4	16	87	291	769	1513	2422	3271	3845	4117	4181	4191
55	1	5	38	153	488	1082	1835	2529	2957	3121	3148	3152
60	0	1	13	67	276	721	1319	1858	2148	2233	2243	2244
<b>Growing Degree Units for Corn (Monthly Accumulated)</b>												
50/86	26	79	229	502	999	1716	2554	3336	3908	4253	4385	4428

Note: For corn, temperatures below 50 are set to 50, and temperatures above 86 are set to 86.

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