

Summary of Monthly Normals
1991-2020

Generated on 04/30/2024

Current Location: Elev: 767 ft. Lat: 39.7650° N Lon: 93.0594° W
Station: **BROOKFIELD, MO US USC00230980**

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	36.1	17.7	26.9	4.4	4.5	4.2	0.2	0.0	0.0	0.0	0.0	0.0	871.0	932.9	1025.7	1180.7	0.0	0.0	4.8	12.2	28.6	3.4
02	41.6	21.5	31.5	6.2	5.8	5.8	2.3	1.3	0.4	0.1	0.0	0.0	658.8	713.8	796.8	936.5	0.0	0.0	8.2	7.3	23.8	1.9
03	53.6	31.9	42.8	5.3	4.7	4.8	29.6	21.1	11.5	2.8	0.1	0.0	409.5	462.9	546.4	692.7	0.0	0.0	18.1	1.6	17.4	0.3
04	64.9	42.2	53.6	3.7	3.4	3.5	97.0	73.1	43.9	14.2	2.0	0.6	140.6	176.7	237.5	357.7	0.0	0.0	27.1	0.0	4.8	0.0
05	74.4	53.5	63.9	3.3	3.3	3.1	295.5	244.6	175.5	87.6	32.9	19.7	18.1	29.2	53.1	120.2	0.0	0.4	30.7	0.0	0.1	0.0
06	83.3	63.4	73.3	2.4	1.9	2.0	550.4	490.8	402.0	260.4	137.2	96.7	0.1	0.4	1.8	10.1	0.0	4.8	30.0	0.0	0.0	0.0
07	87.3	67.4	77.4	2.8	2.5	2.4	692.8	630.8	537.7	383.2	234.6	180.6	0.0	0.0	0.0	0.5	0.3	10.1	31.0	0.0	0.0	0.0
08	86.1	64.9	75.5	2.8	2.9	2.6	635.4	573.4	480.5	327.4	185.6	137.2	0.0	0.0	0.2	2.1	0.4	8.6	31.0	0.0	0.0	0.0
09	78.9	56.3	67.6	3.4	3.1	3.1	386.1	331.1	253.1	142.9	64.7	42.9	8.2	13.1	25.2	65.0	0.0	3.4	30.0	0.0	0.1	0.0
10	67.3	44.5	55.9	3.4	2.5	2.7	139.5	108.4	69.7	27.5	8.0	4.4	111.7	142.6	196.9	309.7	0.0	0.2	28.7	0.1	4.1	0.0
11	52.8	32.7	42.7	5.7	4.2	4.8	20.8	13.9	6.6	1.2	0.1	0.0	388.2	441.3	524.0	668.6	0.0	0.0	17.0	1.6	15.9	0.0
12	40.7	22.9	31.8	4.6	4.7	4.4	1.3	0.6	0.1	0.0	0.0	0.0	720.4	781.7	874.1	1028.9	0.0	0.0	6.8	8.6	26.0	1.5
Summary	63.9	43.2	53.6	4.0	3.6	3.6	2851	2489	1981	1247	665	482	3327	3695	4282	5373	0.7	27.5	263.4	31.4	120.8	7.1

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	1.50	7.2	3.6	0.7	0.2	0.78	1.42	2.25	
02	1.82	7.5	3.8	1.3	0.5	0.95	1.83	2.31	
03	2.90	9.5	6.0	1.8	0.7	1.46	2.86	3.82	
04	3.95	11.6	8.1	3.0	1.0	3.06	3.80	4.90	
05	5.53	12.5	8.3	3.2	1.3	2.49	3.94	7.37	
06	5.49	11.4	7.6	3.8	1.8	3.30	4.97	6.96	
07	4.92	9.6	6.5	3.2	1.5	3.08	4.00	6.45	
08	4.37	8.8	5.4	2.4	1.5	2.69	3.78	6.14	
09	3.99	7.7	5.2	2.2	0.9	1.97	3.32	5.72	
10	3.43	8.7	5.5	2.1	1.0	1.26	2.82	4.94	
11	2.52	7.9	4.5	1.7	0.7	1.26	2.17	2.82	
12	1.80	7.4	4.2	1.1	0.3	1.14	1.64	2.34	
Summary	42.22	109.8	68.7	26.5	11.4	23.44	36.55	56.02	

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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	4.80	3.1	2.0	0.5	0.2	0.0	11.7	5.3	2.2	0.1	2.00	3.00	5.20
02	5.90	2.8	2.0	0.7	0.3	0.1	7.5	3.8	2.1	0.9	1.00	3.00	9.50
03	2.50	1.4	1.1	0.2	0.0	0.0	2.2	1.2	0.5	0.1	0.20	1.50	3.10
04	0.20	0.1	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.00	0.00	0.00
05	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00
06	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00
07	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00
08	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00
09	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00
10	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00
11	1.20	0.7	0.3	0.2	0.0	0.0	0.8	0.4	0.1	0.0	0.00	0.20	1.10
12	4.20	2.9	2.3	0.4	0.0	0.0	7.6	2.5	0.6	0.0	0.70	2.00	7.00
Summary	18.9	11.0	7.8	2.0	0.5	0.1	29.9	13.2	5.5	1.1	3.9	9.7	25.9

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Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	17.4	45.5	188.4	418.0	742.6	1000.3	1157.8	1100.3	827.9	499.2	177.1	41.0
45	6.0	20.1	111.1	288.6	588.2	850.3	1002.7	945.3	678.2	358.8	99.5	16.5
50	1.5	7.5	60.7	178.2	436.7	700.3	847.7	790.3	529.9	236.6	48.6	5.2
55	0.2	2.3	29.6	97.0	295.5	550.4	692.8	635.4	386.1	139.5	20.8	1.3
60	0.0	0.4	11.5	43.9	175.5	402.0	537.7	480.5	253.1	69.7	6.6	0.1
Growing Degree Units for Corn (Monthly)												
50/86	13.6	33.5	122.8	249.8	460.4	679.2	799.2	749.0	533.4	301.5	105.2	24.1

Growing Degree Units (Accumulated Monthly)												
40	17	63	251	669	1412	2412	3570	4670	5498	5997	6174	6216
45	6	26	137	426	1014	1864	2867	3812	4490	4849	4949	4965
50	2	9	70	248	685	1385	2233	3023	3553	3789	3838	3843
55	0	2	32	129	425	975	1668	2303	2689	2829	2850	2851
60	0	0	12	56	231	633	1171	1652	1905	1974	1981	1981
Growing Degree Units for Corn (Monthly Accumulated)												
50/86	14	47	170	420	880	1559	2358	3108	3641	3942	4048	4072

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