

Summary of Monthly Normals
1991-2020

Generated on 06/04/2024

Current Location: Elev: 472 ft. Lat: 38.8142° N Lon: 90.5139° W
Station: **ST CHARLES ELM PT, MO US USC00237397**

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	39.5	21.9	30.7	5.0	4.9	4.7	1.5	0.8	0.3	0.0	0.0	0.0	754.6	815.9	908.3	1063.0	0.0	0.0	6.9	9.6	26.0	1.3
02	44.7	25.2	35.0	5.3	4.7	4.8	4.7	3.0	1.4	0.3	0.0	0.0	566.1	620.4	702.7	841.6	0.0	0.0	9.2	5.2	21.8	0.6
03	55.2	33.7	44.4	5.1	4.6	4.7	33.0	23.8	13.4	3.6	0.7	0.3	360.0	412.8	495.4	640.6	0.0	0.0	19.7	1.0	14.6	0.0
04	66.8	44.0	55.4	3.5	3.0	3.2	126.4	98.0	63.4	24.8	6.7	3.2	114.5	146.1	201.4	312.8	0.0	0.0	27.8	0.0	3.0	0.0
05	76.0	55.1	65.5	3.3	3.5	3.3	339.2	285.2	211.1	112.6	46.5	28.6	12.2	20.2	39.1	95.6	0.0	0.8	30.9	0.0	0.0	0.0
06	84.1	64.3	74.2	2.5	2.4	2.3	576.0	516.3	427.7	284.5	157.3	114.0	0.1	0.4	1.8	8.6	0.1	6.8	30.0	0.0	0.0	0.0
07	88.0	68.3	78.2	3.0	2.6	2.7	717.6	655.6	562.5	407.9	258.0	202.2	0.0	0.0	0.0	0.3	0.5	12.6	31.0	0.0	0.0	0.0
08	86.8	65.8	76.3	2.7	3.0	2.7	660.2	598.2	505.3	351.9	208.1	157.2	0.0	0.0	0.2	1.8	0.2	10.0	31.0	0.0	0.0	0.0
09	80.4	57.2	68.8	3.0	3.2	3.0	418.6	361.9	280.9	163.3	76.3	51.3	4.6	7.9	17.0	49.4	0.0	3.7	30.0	0.0	0.0	0.0
10	68.8	45.7	57.3	2.9	2.4	2.4	156.2	121.8	80.7	34.9	10.7	6.0	86.4	114.0	166.0	275.2	0.0	0.2	29.5	0.0	2.6	0.0
11	55.3	35.3	45.3	5.7	4.0	4.6	32.1	22.2	11.7	3.0	0.5	0.2	323.0	373.1	452.6	594.0	0.0	0.0	19.6	0.9	12.8	0.0
12	44.1	26.4	35.2	4.6	4.5	4.4	3.6	2.2	0.8	0.0	0.0	0.0	615.8	676.3	768.0	922.1	0.0	0.0	10.1	5.3	23.8	0.0
Summary	65.8	45.2	55.5	3.9	3.6	3.6	3069	2689	2159	1387	765	563	2837	3187	3752	4805	0.8	34.1	275.7	22.0	104.6	1.9

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	2.74	7.5	5.2	1.8	0.7	1.38	2.19	3.30
02	2.86	6.9	4.9	1.7	0.7	1.81	2.64	3.66
03	3.63	9.7	7.5	2.6	0.8	2.99	3.41	4.26
04	5.11	10.3	8.0	3.5	1.4	3.42	4.34	7.00
05	5.45	11.4	8.9	3.4	1.5	3.68	4.94	6.61
06	4.35	9.1	7.0	2.7	1.2	2.43	4.00	6.13
07	4.20	8.4	6.2	3.0	1.3	2.29	3.62	5.93
08	4.07	7.3	5.9	2.8	1.3	2.59	4.14	5.21
09	3.08	7.0	5.2	2.2	1.0	1.47	2.92	3.64
10	3.50	8.2	6.1	2.5	0.9	1.98	2.92	4.11
11	3.73	8.1	6.2	2.5	1.0	2.17	3.47	5.05
12	2.99	7.1	5.1	1.9	0.8	1.76	2.48	3.50
Summary	45.71	101.0	76.2	30.6	12.6	27.97	41.07	58.40

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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	4.30	2.1	1.3	0.6	0.2	0.0					1.40	3.50	4.70
02	2.60	1.8	0.8	0.3	0.1	0.0					0.00	0.50	1.50
03	0.50	0.3	0.2	0.0	0.0	0.0					0.00	0.00	0.70
04	0.00	0.0	0.0	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					0.00	0.00	0.00
06	0.00	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					0.00	0.00	0.00
08	0.00	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					0.00	0.00	0.00
10	0.00	0.0	0.0	0.0	0.0	0.0					0.00	0.00	0.00
11	0.10	0.4	0.2	0.0	0.0	0.0					0.00	0.00	0.00
12	1.50	1.0	0.7	0.2	0.1	0.0					0.00	1.00	2.80
Summary	9.0	5.6	3.2	1.1	0.4	0.0	0.0	0.0	0.0	0.0	1.4	5.0	9.7

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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	37.9	66.1	210.8	468.6	792.0	1025.9	1182.5	1125.2	863.9	537.2	221.1	65.5
45	15.6	31.6	125.3	333.7	637.2	875.9	1027.5	970.2	713.9	390.5	130.4	29.6
50	5.2	12.9	68.0	217.7	484.3	725.9	872.5	815.2	564.8	260.8	69.1	11.6
55	1.5	4.7	33.0	126.4	339.2	576.0	717.6	660.2	418.6	156.2	32.1	3.6
60	0.3	1.4	13.4	63.4	211.1	427.7	562.5	505.3	280.9	80.7	11.7	0.8
Growing Degree Units for Corn (Monthly)												
50/86	25.7	47.4	133.4	280.6	498.2	699.6	817.9	769.9	561.6	325.5	127.4	41.0

Growing Degree Units (Accumulated Monthly)												
40	38	104	315	783	1575	2601	3784	4909	5773	6310	6531	6597
45	16	47	172	506	1143	2019	3047	4017	4731	5121	5252	5281
50	5	18	86	304	788	1514	2386	3202	3766	4027	4096	4108
55	2	6	39	166	505	1081	1798	2459	2877	3033	3066	3069
60	0	2	15	78	290	717	1280	1785	2066	2147	2158	2159
Growing Degree Units for Corn (Monthly Accumulated)												
50/86	26	73	206	487	985	1685	2503	3273	3834	4160	4287	4328

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