

Summary of Monthly Normals
1991-2020

Generated on 06/03/2024

Current Location: Elev: 1060 ft. Lat: 40.4750° N Lon: 93.0031° W

Station: UNIONVILLE, MO US USC00238523

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	32.1	14.8	23.5	4.6	4.6	4.4	0.0	0.0	0.0	0.0	0.0	0.0	977.7	1039.8	1132.8	1287.9	0.0	0.0	3.6	14.8	29.5	4.5
02	37.5	18.1	27.8	6.3	5.9	6.0	0.7	0.3	0.1	0.0	0.0	0.0	762.1	817.8	901.6	1041.6	0.0	0.0	4.8	10.4	26.0	3.4
03	50.1	28.7	39.4	5.1	4.6	4.7	16.9	11.8	6.2	1.3	0.0	0.0	500.6	557.5	644.9	795.0	0.0	0.0	16.3	2.3	20.4	0.3
04	61.7	39.4	50.6	3.7	3.2	3.3	62.0	43.5	22.3	5.3	0.5	0.1	195.5	237.0	305.8	438.9	0.0	0.0	25.8	0.2	7.2	0.0
05	71.4	51.8	61.6	3.4	2.9	2.9	239.7	193.5	132.2	58.1	16.4	7.7	35.2	51.0	82.6	163.5	0.0	0.4	30.7	0.0	0.4	0.0
06	81.0	61.3	71.2	2.3	1.6	1.8	485.0	425.6	337.4	198.5	86.7	54.7	0.7	1.2	3.0	14.0	0.0	3.0	30.0	0.0	0.0	0.0
07	85.5	65.6	75.5	3.3	2.5	2.7	636.8	574.9	482.0	329.3	186.4	136.8	0.0	0.0	0.1	2.4	0.6	8.4	31.0	0.0	0.0	0.0
08	83.8	63.5	73.6	2.9	2.8	2.7	578.0	516.2	423.8	274.6	143.9	101.6	0.1	0.2	0.8	6.5	0.2	6.4	31.0	0.0	0.0	0.0
09	76.4	54.5	65.5	3.0	2.8	2.7	326.5	274.0	201.6	104.3	41.0	25.9	13.1	20.6	38.2	90.8	0.0	1.3	30.0	0.0	0.1	0.0
10	63.7	42.5	53.1	3.2	2.6	2.7	92.8	68.1	40.5	14.8	3.9	2.1	151.7	189.0	254.4	383.6	0.0	0.1	27.5	0.0	5.2	0.0
11	49.5	30.2	39.8	6.1	4.8	5.3	9.1	5.4	2.0	0.1	0.0	0.0	463.6	519.9	606.5	754.6	0.0	0.0	17.0	2.5	17.4	0.3
12	37.2	20.3	28.7	4.8	4.6	4.6	0.3	0.1	0.0	0.0	0.0	0.0	813.9	875.7	968.6	1123.7	0.0	0.0	5.0	10.9	27.7	2.1
Summary	60.8	40.9	50.9	4.1	3.6	3.6	2448	2113	1648	986	479	329	3914	4310	4939	6103	0.8	19.6	252.7	41.1	133.9	10.6

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	1.35	6.1	4.0	0.7	0.1	1.00	1.32	1.72
02	1.69	7.0	4.6	1.0	0.3	1.15	1.76	2.03
03	2.60	8.4	6.1	1.6	0.6	1.79	2.53	3.14
04	3.80	10.3	7.5	2.9	1.0	2.75	3.85	4.88
05	6.04	11.9	8.9	3.5	1.5	3.44	5.38	8.02
06	5.62	10.0	7.4	3.9	1.8	3.68	4.59	7.74
07	4.64	8.6	6.2	2.6	1.4	1.70	3.68	4.89
08	5.29	9.0	7.0	2.9	1.5	2.36	4.24	7.38
09	3.52	7.9	6.3	2.8	1.2	2.21	3.22	4.49
10	3.15	8.5	5.9	2.5	0.7	1.69	3.05	3.90
11	2.32	6.6	5.0	1.6	0.5	1.44	2.03	2.48
12	1.91	7.3	4.7	1.5	0.4	1.07	1.66	2.25
Summary	41.93	101.6	73.6	27.5	11.0	24.28	37.31	52.92

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U.S. Department of Commerce
National Oceanic & Atmospheric Administration
National Environmental Satellite, Data, and Information Service

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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	6.00	3.0	2.2	0.6	0.2	0.0	11.7	4.6	1.9	0.1	3.30	5.00	7.60
02	9.90	4.0	2.8	0.9	0.5	0.1	10.0	6.5	4.6	1.4	2.40	4.80	18.80
03	3.00	1.4	1.1	0.4	0.1	0.0	2.6	1.6	0.9	0.3	0.60	2.30	4.20
04	1.20	0.4	0.2	0.2	0.0	0.0	0.3	0.2	0.1	0.0	0.00	0.00	0.00
05	0.40	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	0.50	0.2	0.2	0.1	0.0	0.0	0.2	0.1	0.0	0.0	0.00	0.00	0.00
11	1.90	0.8	0.6	0.2	0.0	0.0	0.9	0.2	0.0	0.0	0.00	1.50	1.90
12	5.80	3.4	2.2	0.7	0.3	0.0	7.9	3.9	1.3	0.1	2.00	4.00	6.50
Summary	28.7	13.2	9.3	3.1	1.1	0.1	33.6	17.1	8.8	1.9	8.3	17.6	39.0

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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	6.4	24.7	128.0	338.7	669.9	934.3	1101.7	1042.8	763.3	416.9	126.2	23.6
45	1.3	9.3	70.9	220.0	516.7	784.3	946.7	887.8	613.7	284.0	61.3	6.4
50	0.0	2.8	36.5	126.9	371.1	634.5	791.8	733.0	465.9	175.0	26.5	1.5
55	0.0	0.7	16.9	62.0	239.7	485.0	636.8	578.0	326.5	92.8	9.1	0.3
60	0.0	0.1	6.2	22.3	132.2	337.4	482.0	423.8	201.6	40.5	2.0	0.0
Growing Degree Units for Corn (Monthly)												
50/86	5.0	19.2	86.9	198.9	400.0	624.9	757.5	708.7	483.5	241.0	73.3	14.4

Growing Degree Units (Accumulated Monthly)												
40	6	31	159	498	1168	2102	3204	4246	5010	5427	5553	5576
45	1	11	82	302	818	1602	2549	3437	4051	4335	4396	4402
50	0	3	39	166	537	1172	1964	2697	3162	3338	3364	3366
55	0	1	18	80	319	804	1441	2019	2346	2438	2448	2448
60	0	0	6	29	161	498	980	1404	1606	1646	1648	1648
Growing Degree Units for Corn (Monthly Accumulated)												
50/86	5	24	111	310	710	1335	2092	2801	3285	3526	3599	3613

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