

Summary of Monthly Normals
1991-2020

Generated on 04/27/2024

Current Location: Elev: 999 ft. Lat: 40.7719° N Lon: 95.3567° W
Station: SHENANDOAH, IA US USC00137613

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	33.4	13.7	23.5	5.2	4.6	4.6	0.0	0.0	0.0	0.0	0.0	0.0	974.7	1036.7	1129.7	1284.7	0.0	0.0	3.9	14.2	29.8	5.2
02	38.7	18.0	28.4	6.8	5.8	6.1	0.8	0.4	0.3	0.1	0.0	0.0	746.9	802.5	886.3	1026.1	0.0	0.0	6.3	9.7	25.7	2.6
03	51.6	29.3	40.4	5.8	4.7	5.0	19.9	13.3	7.5	2.1	0.2	0.0	471.1	526.5	613.6	763.3	0.0	0.0	17.0	2.4	19.7	0.6
04	63.7	39.9	51.8	4.1	3.5	3.7	81.3	59.5	35.5	12.3	2.6	1.1	177.3	215.5	281.5	408.3	0.0	0.3	25.9	0.2	7.0	0.0
05	73.8	52.5	63.2	3.5	3.0	3.1	281.1	233.1	168.7	85.5	33.4	20.7	28.4	42.5	71.1	142.9	0.0	1.6	30.6	0.0	0.3	0.0
06	83.3	63.1	73.2	2.5	2.2	2.3	546.3	486.9	398.9	258.6	138.2	98.5	0.5	1.0	3.1	12.8	0.0	6.5	30.0	0.0	0.0	0.0
07	86.9	66.7	76.8	3.1	2.7	2.7	675.7	613.7	520.7	367.0	221.7	168.5	0.0	0.0	0.0	1.3	0.6	10.8	31.0	0.0	0.0	0.0
08	85.2	64.0	74.6	2.7	2.8	2.5	607.5	545.6	453.1	301.7	165.3	120.3	0.0	0.1	0.6	4.2	0.4	8.4	31.0	0.0	0.0	0.0
09	79.0	54.5	66.7	3.5	3.6	3.3	364.4	311.4	237.8	134.4	62.3	42.4	12.0	19.0	35.5	82.0	0.1	3.8	29.9	0.0	0.2	0.0
10	66.3	41.6	53.9	3.9	2.7	2.9	112.1	84.8	52.4	19.6	5.7	3.3	144.6	179.4	240.0	362.2	0.0	0.4	28.1	0.1	6.2	0.0
11	50.7	29.4	40.1	6.5	4.1	5.1	12.8	7.9	3.7	0.7	0.0	0.0	461.3	516.4	602.1	749.1	0.0	0.0	16.4	2.6	19.2	0.1
12	37.9	19.1	28.5	4.9	4.8	4.6	0.4	0.2	0.1	0.0	0.0	0.0	821.7	883.5	976.4	1131.3	0.0	0.0	6.2	10.2	28.8	2.0
Summary	62.5	41.0	51.8	4.4	3.7	3.8	2702	2357	1879	1182	629	455	3838	4223	4840	5968	1.1	31.8	256.3	39.4	136.9	10.5

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	0.92	5.1	2.9	0.4	0.1	0.55	0.92	1.12	
02	1.21	5.9	3.5	0.6	0.1	0.73	1.12	1.40	
03	2.06	7.0	4.7	1.3	0.3	1.05	1.80	3.14	
04	3.34	9.8	7.0	2.4	0.7	2.60	3.28	4.12	
05	6.16	11.9	8.7	4.2	2.0	3.41	5.82	8.44	
06	5.53	10.2	7.6	3.5	2.1	3.40	5.63	7.02	
07	4.36	9.5	6.3	3.0	1.4	2.46	3.66	5.58	
08	3.77	8.6	5.7	2.1	1.2	1.65	2.94	6.35	
09	3.02	7.3	5.3	2.2	0.8	1.53	2.50	4.35	
10	2.84	7.5	4.8	1.6	0.7	1.18	2.10	4.68	
11	1.76	5.7	3.5	1.2	0.4	1.01	1.48	2.37	
12	1.40	5.3	3.0	0.9	0.3	0.55	1.27	1.58	
Summary	36.37	93.8	63.0	23.4	10.1	20.12	32.52	50.15	

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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	7.00	3.3	2.7	1.0	0.3	0.0	15.4	9.0	4.7	0.7	5.50	6.50	9.70
02	7.50	3.0	2.6	1.1	0.4	0.0	11.3	7.1	3.9	0.5	1.70	7.80	12.40
03	2.80	1.2	1.1	0.4	0.2	0.0	3.8	2.2	1.2	0.4	0.00	2.00	3.10
04	1.20	0.3	0.2	0.2	0.1	0.0	0.3	0.3	0.2	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	0.60	0.3	0.2	0.1	0.0	0.0	0.3	0.2	0.0	0.0	0.00	0.00	0.00
11	1.50	0.8	0.5	0.2	0.0	0.0	1.8	1.0	0.1	0.0	0.00	0.00	1.00
12	5.80	2.3	2.1	0.7	0.1	0.1	9.7	4.8	2.5	0.3	1.00	3.60	8.40
Summary	26.4	11.2	9.4	3.7	1.1	0.1	42.6	24.6	12.6	1.9	8.2	19.9	34.6

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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	7.4	29.2	152.8	375.3	717.7	995.8	1140.7	1072.5	802.4	445.7	132.0	18.9
45	1.3	11.9	86.3	253.4	564.0	845.8	985.6	917.4	652.7	312.0	69.0	4.8
50	0.0	3.9	44.5	154.0	415.6	695.8	830.7	762.5	505.2	198.5	32.1	1.3
55	0.0	0.8	19.9	81.3	281.1	546.3	675.7	607.5	364.4	112.1	12.8	0.4
60	0.0	0.3	7.5	35.5	168.7	398.9	520.7	453.1	237.8	52.4	3.7	0.1
Growing Degree Units for Corn (Monthly)												
50/86	9.5	26.1	108.5	229.6	438.8	672.7	785.3	728.6	516.2	279.8	88.6	15.9

Growing Degree Units (Accumulated Monthly)												
40	7	37	189	565	1282	2278	3419	4491	5294	5739	5871	5890
45	1	13	100	353	917	1763	2748	3666	4318	4630	4699	4704
50	0	4	48	202	618	1314	2144	2907	3412	3611	3643	3644
55	0	1	21	102	383	929	1605	2213	2577	2689	2702	2702
60	0	0	8	43	212	611	1132	1585	1822	1875	1879	1879
Growing Degree Units for Corn (Monthly Accumulated)												
50/86	10	36	144	374	812	1485	2270	2999	3515	3795	3884	3900

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