

Summary of Monthly Normals
1991-2020

Generated on 06/04/2024

Current Location: Elev: 530 ft. Lat: 40.6222° N Lon: 91.3339° W
Station: FT MADISON, IA US USC00133007

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	32.8	16.9	24.8	4.4	5.2	4.7	0.0	0.0	0.0	0.0	0.0	0.0	934.5	996.5	1089.4	1244.4	0.0	0.0	2.6	13.8	27.9	3.3
02	37.5	20.9	29.2	5.5	6.1	5.7	0.5	0.2	0.1	0.0	0.0	0.0	722.8	778.6	862.3	1002.2	0.0	0.0	4.6	8.6	23.2	1.7
03	49.9	31.6	40.8	4.6	4.4	4.4	15.3	10.1	4.7	0.8	0.0	0.0	457.1	513.8	601.5	752.6	0.0	0.0	16.0	1.8	15.5	0.2
04	62.2	42.5	52.4	3.5	3.1	3.2	72.3	51.1	27.9	7.3	1.0	0.3	151.8	190.6	257.4	386.9	0.0	0.0	26.9	0.0	3.4	0.0
05	72.3	53.8	63.1	3.1	3.1	3.0	271.1	221.9	156.2	73.3	24.0	13.6	21.6	34.4	61.7	133.8	0.0	0.4	30.9	0.0	0.0	0.0
06	81.5	63.4	72.5	2.4	1.7	1.9	523.6	463.9	375.4	235.2	116.6	79.4	0.2	0.5	2.0	11.9	0.1	3.1	30.0	0.0	0.0	0.0
07	85.1	67.5	76.3	3.2	2.7	2.8	660.2	598.2	505.3	351.5	204.9	152.8	0.0	0.0	0.1	1.3	0.3	7.8	31.0	0.0	0.0	0.0
08	83.8	65.6	74.7	2.5	2.7	2.5	610.6	548.6	455.7	303.0	164.3	117.7	0.0	0.0	0.1	2.4	0.2	5.8	31.0	0.0	0.0	0.0
09	77.1	57.2	67.1	3.3	2.9	3.0	371.6	316.8	239.3	131.2	56.4	36.4	7.1	12.4	24.9	66.8	0.0	2.0	30.0	0.0	0.0	0.0
10	64.2	45.2	54.7	3.1	2.4	2.6	109.9	82.1	49.3	16.5	4.2	2.3	119.2	153.4	213.6	335.9	0.0	0.0	28.3	0.0	2.0	0.0
11	49.7	32.8	41.3	5.4	4.3	4.7	11.0	6.4	2.2	0.2	0.0	0.0	423.5	478.8	564.6	712.7	0.0	0.0	15.8	1.6	13.4	0.0
12	37.6	22.7	30.2	4.8	5.2	4.9	0.5	0.2	0.0	0.0	0.0	0.0	770.7	832.4	925.2	1080.2	0.0	0.0	4.5	9.1	24.9	1.0
Summary	61.1	43.3	52.3	3.8	3.6	3.6	2647	2300	1816	1119	571	402	3608	3991	4603	5731	0.6	19.1	251.6	34.9	110.3	6.2

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	1.69	8.1	4.4	1.0	0.3	0.73	1.70	2.34
02	1.93	8.2	3.8	1.2	0.5	0.85	1.65	2.72
03	2.72	9.7	5.7	1.9	0.7	1.35	2.63	3.79
04	3.97	11.6	7.7	3.0	0.9	3.25	3.73	4.91
05	5.11	12.5	8.2	3.6	1.5	2.68	4.62	6.47
06	5.16	10.4	7.5	3.6	1.6	2.67	4.90	8.53
07	4.06	9.3	6.5	2.6	1.2	2.60	3.32	5.71
08	3.80	8.5	6.1	2.6	0.9	2.53	3.65	5.14
09	3.51	7.4	5.2	2.3	1.1	1.44	3.08	4.68
10	3.06	8.9	5.7	1.8	0.8	1.72	2.34	3.97
11	2.43	8.2	4.9	1.6	0.5	1.27	1.79	3.18
12	1.92	8.0	4.2	1.4	0.5	1.04	2.05	2.54
Summary	39.36	110.8	69.9	26.6	10.5	22.13	35.46	53.98

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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	6.10	4.0	2.6	0.7	0.3	0.0	13.5	5.7	2.9	0.7	3.50	5.50	7.30
02	4.60	2.9	2.4	0.6	0.2	0.0	7.6	4.2	2.2	0.1	0.90	2.40	7.30
03	1.70	1.3	0.7	0.1	0.1	0.0	2.4	0.8	0.5	0.0	0.00	1.00	2.10
04	0.50	0.2	0.2	0.1	0.0	0.0	0.2	0.1	0.1	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	0.1	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.00	0.00	0.00
11	0.80	0.5	0.3	0.1	0.0	0.0	0.8	0.2	0.0	0.0	0.00	0.00	1.00
12	4.30	2.8	2.0	0.9	0.2	0.0	6.9	3.4	1.4	0.2	0.90	3.50	6.20
Summary	18.1	11.8	8.3	2.5	0.8	0.0	31.5	14.4	7.1	1.0	5.3	12.4	23.9

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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	8.0	24.6	140.6	383.1	714.5	973.3	1125.2	1075.6	814.4	461.9	142.9	23.0
45	1.4	9.0	75.2	254.8	559.8	823.3	970.2	920.6	664.6	322.1	74.6	7.2
50	0.1	2.4	36.5	148.2	408.7	673.4	815.2	765.6	516.0	201.7	32.4	1.9
55	0.0	0.5	15.3	72.3	271.1	523.6	660.2	610.6	371.6	109.9	11.0	0.5
60	0.0	0.1	4.7	27.9	156.2	375.4	505.3	455.7	239.3	49.3	2.2	0.0
Growing Degree Units for Corn (Monthly)												
50/86	4.2	13.0	77.6	208.7	430.5	662.2	785.3	744.3	521.5	255.0	70.2	10.2

Growing Degree Units (Accumulated Monthly)												
40	8	33	173	556	1271	2244	3369	4445	5259	5721	5864	5887
45	1	10	86	340	900	1724	2694	3614	4279	4601	4676	4683
50	0	2	39	187	596	1269	2084	2850	3366	3568	3600	3602
55	0	0	16	88	359	883	1543	2154	2525	2635	2646	2647
60	0	0	5	33	189	564	1070	1525	1765	1814	1816	1816
Growing Degree Units for Corn (Monthly Accumulated)												
50/86	4	17	95	304	734	1396	2182	2926	3447	3702	3772	3783

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