

Summary of Monthly Normals
1991-2020

Current Location: Elev: 1099 ft. Lat: 42.0208° N Lon: 93.7742° W
Station: AMES 8 WSW, IA US USC00130200
Generated on 05/11/2024

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	28.9	11.9	20.4	5.8	5.4	5.4	0.0	0.0	0.0	0.0	0.0	0.0	1072.4	1134.3	1227.3	1382.3	0.0	0.0	1.5	18.7	30.0	7.0
02	33.6	16.1	24.9	6.7	6.8	6.6	0.1	0.1	0.0	0.0	0.0	0.0	844.2	900.1	984.0	1124.0	0.0	0.0	3.1	12.9	25.7	4.5
03	47.7	27.7	37.7	6.0	4.5	5.0	11.7	8.1	4.1	0.9	0.0	0.0	548.0	606.4	695.5	847.2	0.0	0.0	13.6	4.3	21.9	0.8
04	62.0	38.6	50.3	4.1	3.4	3.6	61.2	43.9	25.2	7.7	1.0	0.4	202.2	245.0	316.2	448.7	0.0	0.1	24.9	0.1	7.8	0.0
05	72.5	50.7	61.6	3.4	2.9	3.0	240.2	194.7	135.4	63.1	21.1	12.1	35.6	52.2	85.8	168.5	0.0	0.9	30.7	0.0	0.5	0.0
06	81.3	60.9	71.1	2.5	1.9	2.1	483.4	424.3	337.5	202.1	92.8	60.9	0.5	1.4	4.7	19.2	0.0	3.0	30.0	0.0	0.0	0.0
07	83.9	64.1	74.0	3.1	2.4	2.6	588.9	526.9	433.9	282.1	145.7	101.1	0.0	0.0	0.0	3.2	0.1	5.9	31.0	0.0	0.0	0.0
08	81.8	61.8	71.8	2.4	2.5	2.3	520.7	458.8	366.8	219.6	98.7	62.9	0.0	0.1	1.0	8.9	0.0	2.7	31.0	0.0	0.0	0.0
09	77.0	53.5	65.3	3.5	3.1	3.1	322.5	270.5	199.2	103.1	40.7	25.4	15.1	23.2	41.9	95.7	0.0	1.8	30.0	0.0	0.2	0.0
10	64.1	41.4	52.8	3.6	2.7	2.9	92.4	68.0	40.6	13.5	3.3	1.8	162.2	199.9	265.4	393.3	0.0	0.1	27.2	0.2	5.9	0.0
11	47.5	28.6	38.1	6.6	4.5	5.4	8.6	5.1	1.9	0.1	0.0	0.0	517.1	573.6	660.3	808.6	0.0	0.0	12.9	4.0	19.4	0.2
12	33.7	17.5	25.6	5.7	5.5	5.4	0.1	0.0	0.0	0.0	0.0	0.0	911.3	973.2	1066.2	1221.2	0.0	0.0	2.6	13.2	29.1	3.2
Summary	59.5	39.4	49.5	4.5	3.8	3.9	2330	2000	1545	892	403	265	4309	4709	5348	6521	0.1	14.5	238.5	53.4	140.5	15.7

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	0.69	5.9	2.2	0.2	0.0	0.40	0.66	0.85
02	1.02	6.4	2.9	0.5	0.0	0.57	1.09	1.42
03	2.01	7.7	4.3	1.4	0.3	1.11	1.99	2.76
04	3.89	11.5	7.8	2.7	0.8	2.82	3.74	4.70
05	4.99	12.7	9.1	3.5	1.3	3.83	4.68	6.55
06	4.89	10.9	7.6	3.1	1.3	2.96	4.09	6.65
07	4.53	8.7	6.4	3.0	1.4	2.70	3.97	5.89
08	4.75	9.6	6.8	2.9	1.4	2.40	4.08	6.61
09	3.47	8.6	5.8	2.5	1.0	1.86	3.13	4.55
10	2.63	8.8	5.3	1.8	0.6	1.03	2.52	3.62
11	1.86	7.0	3.7	1.1	0.4	1.17	1.64	2.55
12	1.17	5.6	2.9	0.6	0.2	0.54	0.98	1.36
Summary	35.90	103.4	64.8	23.3	8.7	21.39	32.57	47.51

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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	7.80	4.4	2.4	1.0	0.4	0.0	18.8	12.7	9.4	3.4	3.20	7.80	10.40
02	10.00	4.4	3.0	1.1	0.5	0.1	15.7	9.6	6.3	2.9	6.10	9.70	14.10
03	4.20	1.9	1.3	0.5	0.3	0.0	5.7	3.1	2.1	1.1	1.00	3.30	5.70
04	1.30	0.9	0.5	0.1	0.0	0.0	0.4	0.1	0.0	0.0	0.00	0.20	2.10
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	0.50	0.3	0.2	0.0	0.0	0.0	0.3	0.1	0.0	0.0	0.00	0.00	0.00
11	2.00	1.5	0.9	0.2	0.1	0.0	2.0	0.8	0.3	0.0	0.00	0.70	2.60
12	6.90	3.6	2.6	0.8	0.4	0.0	12.7	6.9	4.1	1.0	1.50	6.00	10.40
Summary	32.7	17.0	10.9	3.7	1.7	0.1	55.6	33.3	22.2	8.4	11.8	27.7	45.3

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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	3.1	14.9	108.5	334.0	669.8	932.7	1053.8	985.6	757.3	411.4	105.9	9.3
45	0.3	4.9	57.9	217.2	516.5	782.8	898.8	830.7	607.9	281.5	53.5	3.1
50	0.0	1.2	27.5	125.1	369.8	632.8	743.9	675.7	461.1	173.3	23.8	0.8
55	0.0	0.1	11.7	61.2	240.2	483.4	588.9	520.7	322.5	92.4	8.6	0.1
60	0.0	0.0	4.1	25.2	135.4	337.5	433.9	366.8	199.2	40.6	1.9	0.0
Growing Degree Units for Corn (Monthly)												
50/86	3.2	10.0	72.8	202.8	405.2	622.4	722.7	665.4	480.9	246.8	63.6	5.1

Growing Degree Units (Accumulated Monthly)												
40	3	18	126	460	1130	2063	3117	4102	4860	5271	5377	5386
45	0	5	63	280	797	1580	2478	3309	3917	4198	4252	4255
50	0	1	29	154	524	1156	1900	2576	3037	3210	3234	3235
55	0	0	12	73	313	797	1386	1906	2229	2321	2330	2330
60	0	0	4	29	165	502	936	1303	1502	1543	1545	1545
Growing Degree Units for Corn (Monthly Accumulated)												
50/86	3	13	86	289	694	1316	2039	2704	3185	3432	3496	3501

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