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

Summary of Monthly Normals
1991-2020

Generated on 11/11/2026

National Centers for Environmental Information
151 Patton Avenue
Asheville, North Carolina 28801

Current Location: Elev: 957 ft. Lat: 41.5339° N Lon: 93.6531° W

Station: **DES MOINES INTL AP, IA US USW00014933**

Temperature (°F)

	Mean						Cooling Degree Days Base (above)						Heating Degree Days Base (above)				Mean Number of Days					
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	30.9	13.8	22.3	5.3	5.2	5.1	0.0	0.0	0.0	0.0	0.0	0.0	1011.9	1073.9	1166.9	1321.9	0.0	0.0	2.5	16.3	29.5	5.3
02	35.7	18.0	26.9	6.7	6.4	6.4	0.6	0.3	0.1	0.0	0.0	0.0	788.6	844.3	928.1	1068.0	0.0	0.0	4.2	11.5	24.9	2.6
03	49.2	29.6	39.4	5.6	4.5	4.9	16.9	11.5	6.1	1.9	0.2	0.0	500.6	557.1	644.8	795.6	0.0	0.0	14.9	3.0	19.0	0.5
04	62.0	40.6	51.3	3.6	3.3	3.3	70.7	51.2	29.9	9.9	1.5	0.5	181.7	222.3	291.0	420.9	0.0	0.1	25.8	0.1	5.7	0.0
05	72.4	52.3	62.4	3.2	2.7	2.8	256.8	209.5	147.7	71.1	25.6	14.9	28.9	43.7	74.9	153.3	0.0	0.7	30.7	0.0	0.2	0.0
06	81.9	62.4	72.2	2.5	1.9	2.0	514.7	455.5	368.2	229.5	113.5	77.7	0.4	1.1	3.8	15.2	0.0	4.4	30.0	0.0	0.0	0.0
07	85.6	66.4	76.0	3.3	2.6	2.8	650.9	588.9	495.9	341.7	197.4	146.5	0.0	0.0	0.0	0.8	0.5	8.7	31.0	0.0	0.0	0.0
08	83.6	64.2	73.9	2.5	2.7	2.4	585.8	523.8	431.2	280.0	146.2	103.4	0.0	0.1	0.4	4.2	0.1	5.8	31.0	0.0	0.0	0.0
09	76.9	55.4	66.2	3.2	3.3	3.1	346.6	294.0	221.0	120.2	51.9	33.7	12.2	19.7	36.6	85.9	0.0	2.3	30.0	0.0	0.0	0.0
10	63.4	42.9	53.2	3.6	2.7	3.0	97.9	73.1	44.6	15.8	4.0	2.1	155.2	192.5	257.0	383.2	0.0	0.0	27.4	0.0	4.1	0.0
11	48.3	30.2	39.3	6.0	4.5	5.1	10.9	7.0	2.9	0.2	0.0	0.0	483.4	539.5	625.4	772.7	0.0	0.0	14.0	3.1	17.0	0.1
12	35.9	19.5	27.7	5.3	5.1	5.0	0.3	0.1	0.0	0.0	0.0	0.0	846.4	908.3	1001.2	1156.1	0.0	0.0	4.5	11.5	27.4	2.0
Summary	60.5	41.3	50.9	4.2	3.7	3.8	2552	2215	1748	1070	540	379	4009	4402	5030	6178	0.6	22.0	246.0	45.5	127.8	10.5

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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	1.08	8.2	3.4	0.3	0.0	0.76	0.98	1.44
02	1.34	8.4	4.0	0.6	0.0	0.70	1.49	1.77
03	2.17	9.5	5.0	1.3	0.5	1.48	2.05	3.21
04	4.02	11.5	7.5	2.9	0.8	2.40	4.29	4.93
05	5.24	12.7	8.5	3.7	1.5	3.80	5.07	6.22
06	5.26	11.7	7.4	3.5	1.6	2.88	4.27	7.57
07	3.82	9.5	6.1	2.8	1.1	2.11	3.41	5.17
08	4.17	9.4	6.4	2.9	1.2	2.04	3.58	5.62
09	3.18	8.2	5.1	2.0	0.8	1.52	3.12	4.20
10	2.78	8.6	4.6	1.6	0.8	1.23	2.50	3.89
11	1.91	7.7	4.1	1.3	0.3	1.31	1.57	2.50
12	1.58	7.8	3.5	1.0	0.2	0.78	1.30	2.18
Summary	36.55	113.2	65.6	23.9	8.8	21.01	33.63	48.70

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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	9.40	6.9	2.7	1.0	0.4	0.0	18.3	12.6	7.8	1.2	6.00	9.40	11.70
02	10.20	6.3	3.2	1.2	0.5	0.0	15.0	10.4	6.9	1.8	4.40	10.20	14.20
03	4.40	3.1	1.2	0.4	0.1	0.1	5.4	3.2	1.6	0.4	0.60	4.60	5.60
04	1.20	1.0	0.4	0.1	0.0	0.0	0.6	0.2	0.1	0.0	0.00	0.20	1.40
05	0.20	0.1	0.1	0.1	0.0	0.0	0.1	0.1	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	0.5	0.2	0.0	0.0	0.0	0.3	0.1	0.0	0.0	0.00	0.00	0.10
11	2.70	1.8	0.8	0.3	0.1	0.0	2.1	0.8	0.4	0.0	0.00	1.30	4.00
12	7.90	5.6	2.4	0.8	0.5	0.0	10.2	6.9	4.3	0.9	2.00	6.70	11.70
Summary	36.5	25.3	11.0	3.9	1.6	0.1	52.0	34.3	21.1	4.3	13.0	32.4	48.7

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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	6.2	22.7	131.8	358.9	693.0	964.3	1115.8	1050.7	784.4	420.9	120.0	16.9
45	1.1	9.0	73.9	237.5	539.0	814.3	960.8	895.7	634.6	288.8	61.1	5.2
50	0.0	2.8	38.0	138.9	390.2	664.4	805.9	740.8	487.0	179.9	27.1	1.1
55	0.0	0.6	16.9	70.7	256.8	514.7	650.9	585.8	346.6	97.9	10.9	0.3
60	0.0	0.1	6.1	29.9	147.7	368.2	495.9	431.2	221.0	44.6	2.9	0.0
Growing Degree Units for Corn (Monthly)												
50/86	5.6	15.9	84.2	206.4	416.7	648.6	770.3	718.0	496.9	240.0	67.2	10.0

Growing Degree Units (Accumulated Monthly)

40	6	29	161	520	1213	2177	3293	4343	5128	5549	5669	5686
45	1	10	84	322	860	1675	2636	3531	4166	4455	4516	4521
50	0	3	41	180	570	1234	2040	2781	3268	3448	3475	3476
55	0	1	18	88	345	860	1511	2096	2443	2541	2552	2552
60	0	0	6	36	184	552	1048	1479	1700	1745	1748	1748
Growing Degree Units for Corn (Monthly Accumulated)												
50/86	6	22	106	312	729	1377	2148	2866	3363	3603	3670	3680

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

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