

Summary of Monthly Normals
1991-2020

Generated on 05/23/2024

Current Location: Elev: 870 ft. Lat: 42.0647° N Lon: 92.9244° W
Station: MARSHALLTOWN, IA US USC00135198

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	27.5	9.0	18.2	5.3	6.1	5.5	0.0	0.0	0.0	0.0	0.0	0.0	1138.9	1200.9	1294.0	1449.1	0.0	0.0	1.2	19.7	30.5	8.8
02	32.3	13.0	22.6	6.5	7.4	6.8	0.0	0.0	0.0	0.0	0.0	0.0	905.7	961.7	1045.7	1185.8	0.0	0.0	2.5	13.9	26.4	5.7
03	45.4	24.9	35.1	5.8	4.6	5.0	7.3	4.9	2.7	0.6	0.0	0.0	622.7	682.4	773.1	926.0	0.0	0.0	11.3	5.1	23.6	1.0
04	59.5	35.9	47.7	4.1	3.4	3.5	39.3	27.6	14.9	3.7	0.5	0.2	258.3	306.6	383.9	522.7	0.0	0.0	23.4	0.2	9.8	0.0
05	70.7	48.5	59.6	3.4	3.1	3.0	194.7	154.7	104.1	45.8	14.7	8.2	52.2	74.2	116.5	213.2	0.0	0.6	30.3	0.0	1.0	0.0
06	80.4	59.2	69.8	2.3	2.2	2.0	445.2	386.6	301.1	172.8	74.0	47.4	1.4	2.8	7.3	28.9	0.0	2.7	30.0	0.0	0.0	0.0
07	83.5	62.7	73.1	3.2	2.5	2.7	561.0	499.0	406.4	256.5	126.8	87.5	0.0	0.0	0.4	5.4	0.1	5.6	31.0	0.0	0.0	0.0
08	81.5	59.7	70.6	2.5	3.0	2.5	483.6	421.8	330.5	189.9	82.4	53.0	0.1	0.3	2.0	16.3	0.0	3.0	31.0	0.0	0.0	0.0
09	75.4	50.6	63.0	3.4	3.3	3.1	264.9	217.7	154.4	74.8	28.2	17.0	25.0	37.8	64.5	134.9	0.0	1.4	29.9	0.0	0.7	0.0
10	62.2	38.6	50.4	3.4	2.7	2.7	66.4	48.1	28.0	9.0	2.2	1.2	209.1	252.7	325.6	461.6	0.0	0.0	26.6	0.1	9.0	0.0
11	46.5	26.3	36.4	6.3	4.3	5.2	5.0	2.9	0.9	0.0	0.0	0.0	563.0	620.9	708.9	858.0	0.0	0.0	12.0	4.1	21.6	0.2
12	33.5	15.6	24.5	5.6	5.8	5.5	0.3	0.2	0.0	0.0	0.0	0.0	944.1	1006.0	1098.9	1253.9	0.0	0.0	2.9	14.1	28.9	4.1
Summary	58.2	37.0	47.6	4.3	4.0	4.0	2068	1764	1343	753	329	214	4720	5146	5821	7056	0.1	13.3	232.1	57.2	151.5	19.8

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	0.97	6.6	3.1	0.4	0.0	0.74	0.97	1.21
02	1.16	6.6	3.3	0.4	0.1	0.75	1.23	1.60
03	2.10	7.6	4.6	1.4	0.4	0.91	1.84	3.12
04	3.82	10.8	7.1	2.5	1.0	2.74	3.44	4.95
05	4.94	12.9	9.2	3.8	1.3	3.47	4.81	5.34
06	5.93	11.7	8.6	4.3	2.0	3.96	5.53	7.72
07	4.58	9.0	6.6	3.1	1.6	2.17	4.05	5.67
08	4.37	9.2	6.4	3.0	1.5	2.64	3.94	5.46
09	3.85	8.5	5.9	2.4	1.1	2.23	3.48	4.96
10	2.66	8.7	5.6	1.8	0.6	1.25	2.42	3.31
11	2.10	6.5	3.9	1.4	0.4	1.23	1.83	2.76
12	1.39	7.0	3.6	0.8	0.1	0.68	1.27	1.67
Summary	37.87	105.1	67.9	25.3	10.1	22.77	34.81	47.77

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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	6.30	4.1	3.0	0.9	0.3	0.0	19.9	14.3	8.6	0.6	3.00	7.00	8.80
02	5.30	4.2	2.8	0.9	0.3	0.0	16.2	9.7	5.7	1.6	2.50	5.00	7.10
03	3.30	1.6	1.3	0.5	0.1	0.0	6.8	3.2	1.9	0.0	0.70	2.00	4.00
04	0.70	0.3	0.3	0.1	0.0	0.0	0.4	0.2	0.0	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	0.20	0.3	0.1	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.00	0.00	0.00
11	1.70	1.0	0.8	0.2	0.1	0.0	2.1	0.6	0.2	0.0	0.00	1.00	3.90
12	7.80	4.1	2.8	1.1	0.3	0.1	12.9	8.0	4.7	1.4	1.00	8.10	10.80
Summary	25.3	15.6	11.1	3.7	1.1	0.1	58.5	36.0	21.1	3.6	7.2	23.1	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	1.6	10.6	78.5	269.1	608.3	893.6	1025.8	948.4	690.0	344.7	83.2	9.7
45	0.2	3.2	40.8	163.3	456.9	743.8	871.0	793.5	541.3	224.3	39.6	2.8
50	0.0	0.8	19.0	86.9	315.6	593.9	716.0	638.5	397.2	130.4	16.3	0.9
55	0.0	0.0	7.3	39.3	194.7	445.2	561.0	483.6	264.9	66.4	5.0	0.3
60	0.0	0.0	2.7	14.9	104.1	301.1	406.4	330.5	154.4	28.0	0.9	0.0
Growing Degree Units for Corn (Monthly)												
50/86	2.2	8.6	56.6	171.1	364.3	587.0	695.5	630.9	436.0	215.1	55.9	6.9

Growing Degree Units (Accumulated Monthly)												
40	2	12	91	360	968	1862	2888	3836	4526	4871	4954	4963
45	0	3	44	208	664	1408	2279	3073	3614	3838	3878	3881
50	0	1	20	107	422	1016	1732	2371	2768	2898	2915	2916
55	0	0	7	47	241	686	1248	1731	1996	2062	2067	2068
60	0	0	3	18	122	423	829	1160	1314	1342	1343	1343
Growing Degree Units for Corn (Monthly Accumulated)												
50/86	2	11	67	238	603	1190	1885	2516	2952	3167	3223	3230

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