

Summary of Monthly Normals
1991-2020

Generated on 06/04/2024

Current Location: Elev: 1214 ft. Lat: 42.3969° N Lon: 94.6292° W

Station: ROCKWELL CITY, IA US USC00137161

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	26.5	8.4	17.4	5.4	5.7	5.4	0.0	0.0	0.0	0.0	0.0	0.0	1163.8	1225.8	1318.8	1473.9	0.0	0.0	1.1	20.1	30.5	9.5
02	31.4	12.3	21.8	6.4	7.2	6.6	0.0	0.0	0.0	0.0	0.0	0.0	928.1	984.0	1068.0	1208.1	0.0	0.0	2.5	14.6	26.9	6.5
03	45.1	24.4	34.7	5.8	4.7	5.1	6.1	3.9	2.0	0.4	0.0	0.0	633.9	693.7	784.8	938.2	0.0	0.0	11.5	5.4	23.8	1.1
04	59.2	35.6	47.4	4.1	3.3	3.6	37.1	25.2	13.9	4.2	0.6	0.2	265.1	313.2	391.9	532.3	0.0	0.1	22.8	0.4	10.4	0.0
05	70.0	48.7	59.4	3.4	3.1	3.1	190.4	150.5	100.6	43.2	13.4	7.3	55.6	77.7	120.8	218.4	0.0	0.6	30.3	0.0	0.8	0.0
06	79.6	59.5	69.6	2.7	2.2	2.2	438.0	379.8	294.8	166.1	68.7	42.7	1.7	3.5	8.5	29.7	0.0	2.9	30.0	0.0	0.0	0.0
07	82.9	62.9	72.9	3.3	2.4	2.7	554.8	492.8	400.2	250.4	120.6	80.6	0.0	0.0	0.4	5.6	0.2	4.8	31.0	0.0	0.0	0.0
08	80.7	60.5	70.6	2.6	2.5	2.3	483.5	421.7	330.2	188.4	79.6	49.9	0.0	0.2	1.7	14.8	0.0	2.5	31.0	0.0	0.0	0.0
09	75.0	51.1	63.0	3.3	3.4	3.0	265.3	217.5	153.5	72.6	25.4	14.7	23.9	36.1	62.1	131.1	0.0	1.5	29.9	0.0	0.2	0.0
10	62.2	38.4	50.3	3.9	2.9	3.1	63.8	45.7	25.9	7.9	2.1	1.0	209.6	253.4	326.6	463.6	0.0	0.2	26.2	0.2	8.1	0.0
11	45.8	25.4	35.6	7.1	4.8	5.8	3.9	2.1	0.6	0.0	0.0	0.0	585.9	644.0	732.5	882.0	0.0	0.0	11.9	5.0	23.1	0.4
12	32.0	14.8	23.4	5.7	5.3	5.3	0.0	0.0	0.0	0.0	0.0	0.0	979.4	1041.4	1134.4	1289.5	0.0	0.0	2.3	14.8	29.9	4.3
Summary	57.5	36.8	47.2	4.5	4.0	4.0	2043	1739	1322	733	310	196	4847	5273	5950	7187	0.2	12.6	230.5	60.5	153.7	21.8

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	0.76	5.3	2.4	0.3	0.0	0.40	0.74	1.09
02	0.99	5.2	2.9	0.4	0.0	0.69	0.96	1.20
03	1.99	7.0	4.1	1.1	0.4	1.17	1.99	2.60
04	3.76	9.4	6.6	2.7	0.9	2.44	3.54	4.55
05	5.02	12.4	9.0	3.4	1.2	3.04	4.89	5.50
06	5.04	10.9	7.7	3.5	1.2	3.64	4.74	7.01
07	3.54	8.8	6.2	2.4	1.0	2.41	3.25	4.32
08	4.53	8.8	6.2	2.8	1.5	1.92	4.04	5.86
09	2.95	7.8	5.5	2.1	0.6	1.98	2.73	3.97
10	2.35	8.1	5.0	1.6	0.6	1.14	2.05	3.36
11	1.48	5.0	3.3	0.8	0.1	0.82	1.18	2.09
12	1.34	5.4	3.0	0.7	0.2	0.67	1.27	1.74
Summary	33.75	94.1	61.9	21.8	7.7	20.32	31.38	43.29

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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	7.40	3.9	2.8	0.9	0.3	0.0	23.4	18.0	14.3	5.5	3.00	6.70	9.00
02	7.60	3.4	3.1	0.9	0.5	0.0	20.4	16.3	12.4	5.5	4.50	7.00	10.20
03	4.90	2.3	1.9	0.5	0.2	0.0	10.0	5.9	4.5	2.0	2.00	4.00	7.50
04	1.90	0.8	0.7	0.3	0.0	0.0	0.8	0.3	0.1	0.0	0.00	1.20	3.00
05	0.00	0.0	0.0	0.0	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	0.60	0.2	0.2	0.1	0.0	0.0	0.2	0.1	0.0	0.0	0.00	0.00	0.00
11	2.40	1.3	1.1	0.2	0.1	0.0	3.8	1.5	0.4	0.0	0.00	1.00	3.80
12	7.30	3.6	3.0	1.0	0.3	0.0	15.0	9.0	7.5	1.1	2.00	5.00	10.00
Summary	32.1	15.5	12.8	3.9	1.4	0.0	73.7	51.2	39.2	14.1	11.5	24.9	43.5

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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	1.5	8.5	76.9	264.1	600.3	886.2	1019.7	948.4	691.5	344.9	78.1	5.5
45	0.2	2.6	39.0	161.1	449.4	736.2	864.7	793.4	542.6	224.2	36.1	1.5
50	0.0	0.5	16.8	84.8	309.0	586.5	709.8	638.5	398.3	129.1	14.3	0.2
55	0.0	0.0	6.1	37.1	190.4	438.0	554.8	483.5	265.3	63.8	3.9	0.0
60	0.0	0.0	2.0	13.9	100.6	294.8	400.2	330.2	153.5	25.9	0.6	0.0
Growing Degree Units for Corn (Monthly)												
50/86	1.9	7.4	56.9	168.8	351.1	580.6	692.6	630.1	430.0	214.3	55.5	4.8

Growing Degree Units (Accumulated Monthly)												
40	2	10	87	351	951	1838	2857	3806	4497	4842	4920	4926
45	0	3	42	203	652	1388	2253	3047	3589	3813	3849	3851
50	0	0	17	102	411	998	1707	2346	2744	2873	2888	2888
55	0	0	6	43	234	672	1226	1710	1975	2039	2043	2043
60	0	0	2	16	116	411	812	1142	1295	1321	1322	1322
Growing Degree Units for Corn (Monthly Accumulated)												
50/86	2	9	66	235	586	1167	1859	2489	2919	3134	3189	3194

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

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