

Summary of Monthly Normals
1991-2020

Generated on 05/23/2024

Current Location: Elev: 1140 ft. Lat: 40.7053° N Lon: 94.2428° W

Station: MT AYR, IA US USC00135769

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	31.9	11.7	21.8	5.2	4.8	4.7	0.0	0.0	0.0	0.0	0.0	0.0	1029.0	1091.0	1183.9	1339.1	0.0	0.0	3.1	16.0	30.1	5.9
02	36.8	16.1	26.5	6.8	6.3	6.4	0.3	0.2	0.1	0.0	0.0	0.0	799.7	855.5	939.4	1079.4	0.0	0.0	5.0	10.9	26.1	3.4
03	49.4	27.5	38.5	5.5	4.6	4.9	12.5	8.2	4.2	0.6	0.0	0.0	525.6	583.3	672.4	823.7	0.0	0.0	15.3	3.2	21.5	0.5
04	61.4	38.0	49.7	3.4	3.2	3.2	55.4	38.8	20.8	4.7	0.3	0.0	214.4	257.8	329.8	463.7	0.0	0.0	25.4	0.2	8.6	0.0
05	70.8	49.7	60.2	3.5	3.1	3.0	208.0	165.7	111.1	45.6	12.4	6.6	45.2	65.0	103.4	192.9	0.0	0.4	30.6	0.0	0.6	0.0
06	80.3	59.6	70.0	2.3	2.3	2.1	449.8	391.1	305.2	174.7	75.4	47.6	1.4	2.7	6.9	26.3	0.0	1.7	30.0	0.0	0.0	0.0
07	84.6	63.9	74.2	3.0	2.7	2.6	596.7	534.7	441.9	290.6	153.7	108.6	0.0	0.0	0.2	3.9	0.3	6.9	31.0	0.0	0.0	0.0
08	83.3	61.8	72.5	2.9	2.9	2.7	544.0	482.3	390.4	243.0	119.3	82.0	0.1	0.4	1.5	9.0	0.0	5.2	31.0	0.0	0.0	0.0
09	76.4	52.7	64.5	3.0	3.5	3.0	303.7	253.4	184.9	93.8	36.7	22.7	17.3	27.0	48.5	107.4	0.0	1.6	29.9	0.0	0.3	0.0
10	64.1	40.2	52.1	3.6	2.7	2.8	82.9	60.3	34.9	11.8	3.2	1.8	171.3	210.7	278.4	410.2	0.0	0.0	27.3	0.0	7.4	0.0
11	49.0	27.9	38.4	6.0	4.6	5.1	8.6	4.9	1.7	0.1	0.0	0.0	505.1	561.3	648.2	796.6	0.0	0.0	15.2	3.3	19.9	0.2
12	36.8	17.7	27.2	4.9	4.9	4.8	0.3	0.2	0.0	0.0	0.0	0.0	860.4	922.3	1015.1	1170.2	0.0	0.0	4.9	11.3	28.8	2.5
Summary	60.4	38.9	49.6	4.2	3.8	3.8	2262	1940	1495	865	401	269	4170	4577	5228	6422	0.3	15.8	248.7	44.9	143.3	12.5

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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	0.73	4.0	2.4	0.4	0.0	0.47	0.70	0.92	
02	1.25	4.6	3.2	0.7	0.2	0.79	1.07	1.61	
03	2.16	6.2	4.8	1.3	0.4	0.78	2.11	3.23	
04	3.37	8.5	6.7	2.6	0.9	2.25	3.50	4.31	
05	5.35	11.0	9.1	4.1	1.9	3.60	5.53	6.83	
06	5.39	9.2	7.7	3.6	1.5	3.71	4.78	6.81	
07	4.40	8.2	6.6	2.9	1.2	2.50	3.25	4.94	
08	3.98	7.9	6.3	2.7	1.5	2.18	4.05	5.20	
09	3.71	6.5	5.3	2.3	1.0	1.63	2.69	5.04	
10	2.88	7.1	5.2	1.8	1.0	1.39	2.64	3.89	
11	2.11	5.0	3.8	1.5	0.6	1.23	1.61	2.62	
12	1.63	4.7	3.4	1.0	0.4	0.79	1.03	1.90	
Summary	36.96	82.9	64.5	24.9	10.6	21.32	32.96	47.30	

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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	5.80	2.9	2.1	0.7	0.1	0.0	13.3	7.5	4.0	1.0	2.00	5.00	7.70
02	5.90	3.4	2.2	0.7	0.3	0.0	11.6	7.3	4.0	0.2	0.50	6.10	10.00
03	2.60	1.1	0.8	0.2	0.1	0.0	3.5	2.0	0.7	0.2	0.10	1.80	4.00
04	0.70	0.3	0.2	0.1	0.1	0.0	0.3	0.1	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	0.30	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00
11	1.20	0.7	0.4	0.2	0.1	0.0	1.5	0.7	0.2	0.0	0.00	0.00	0.60
12	4.00	2.5	1.6	0.6	0.1	0.0	7.3	4.0	2.3	1.1	0.80	3.10	6.10
Summary	20.5	11.0	7.3	2.5	0.8	0.0	37.5	21.6	11.2	2.5	3.4	16.0	28.4

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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	5.1	20.4	119.7	318.5	628.1	898.3	1061.6	1008.8	736.5	393.9	108.4	15.0
45	0.8	7.8	65.7	203.9	475.6	748.3	906.6	853.8	587.0	266.6	54.7	4.3
50	0.1	2.0	31.9	115.3	332.4	598.5	751.6	698.9	440.8	161.1	24.4	1.2
55	0.0	0.3	12.5	55.4	208.0	449.8	596.7	544.0	303.7	82.9	8.6	0.3
60	0.0	0.1	4.2	20.8	111.1	305.2	441.9	390.4	184.9	34.9	1.7	0.0
Growing Degree Units for Corn (Monthly)												
50/86	6.3	18.6	85.2	193.3	374.4	593.5	724.2	678.6	468.2	244.2	72.0	11.3

Growing Degree Units (Accumulated Monthly)												
40	5	26	145	464	1092	1990	3052	4060	4797	5191	5299	5314
45	1	9	74	278	754	1502	2409	3262	3850	4116	4171	4175
50	0	2	34	149	482	1080	1832	2531	2972	3133	3157	3158
55	0	0	13	68	276	726	1323	1867	2170	2253	2262	2262
60	0	0	4	25	136	441	883	1274	1459	1494	1495	1495
Growing Degree Units for Corn (Monthly Accumulated)												
50/86	6	25	110	303	678	1271	1996	2674	3142	3386	3458	3470

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

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