

Summary of Monthly Normals 1991-2020

Generated on 07/13/2024

Current Location: Elev: 866 ft. Lat: 43.1406° N Lon: 89.3453° W
 Station: **MADISON DANE RGNL AP, WI US USW00014837**

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	27.0	11.8	19.4	4.7	6.0	5.3	0.0	0.0	0.0	0.0	0.0	0.0	1103.4	1165.4	1258.4	1413.4	0.0	0.0	0.7	20.0	29.7	7.3
02	31.2	14.9	23.0	5.6	6.4	5.9	0.0	0.0	0.0	0.0	0.0	0.0	894.5	950.5	1034.5	1174.5	0.0	0.0	1.3	14.6	26.6	4.5
03	43.6	25.1	34.4	4.9	4.7	4.6	6.5	4.7	2.7	0.7	0.0	0.0	646.7	706.9	797.9	950.9	0.0	0.0	9.3	5.1	23.3	0.9
04	56.9	35.8	46.3	3.8	2.9	3.1	28.6	19.8	9.7	2.0	0.3	0.1	288.1	339.3	419.2	561.5	0.0	0.0	22.0	0.3	10.4	0.0
05	69.0	47.1	58.1	3.2	3.2	3.1	162.3	126.8	83.3	36.1	11.5	6.0	67.8	94.3	143.7	251.6	0.0	0.4	30.5	0.0	1.5	0.0
06	78.6	57.4	68.0	2.5	1.9	2.0	392.5	335.3	253.7	136.7	55.6	34.6	2.6	5.4	13.8	46.8	0.0	2.0	30.0	0.0	0.0	0.0
07	82.1	61.6	71.9	3.3	2.7	2.9	522.3	460.3	367.9	221.1	103.7	68.7	0.0	0.0	0.6	8.9	0.2	3.6	31.0	0.0	0.0	0.0
08	79.9	59.5	69.7	2.5	2.9	2.5	455.8	394.2	303.5	165.9	67.0	42.3	0.2	0.6	2.9	20.2	0.0	2.0	31.0	0.0	0.0	0.0
09	72.9	51.0	62.0	3.3	3.1	3.0	236.9	191.8	132.6	59.3	19.8	11.6	28.5	43.4	74.1	150.9	0.0	0.6	29.9	0.0	0.5	0.0
10	59.6	39.8	49.7	3.4	2.7	2.8	50.9	35.7	19.6	5.5	1.3	0.7	215.2	262.0	338.9	479.8	0.0	0.0	25.9	0.0	7.2	0.0
11	44.8	28.7	36.7	5.7	4.0	4.7	3.7	2.2	0.9	0.0	0.0	0.0	551.2	609.6	698.4	847.5	0.0	0.0	10.5	4.1	19.7	0.1
12	32.3	18.2	25.3	5.0	5.6	5.2	0.1	0.0	0.0	0.0	0.0	0.0	922.3	984.2	1077.2	1232.2	0.0	0.0	1.6	14.6	28.1	3.0
Summary	56.5	37.6	47.0	4.0	3.8	3.8	1860	1571	1174	627	259	164	4720	5162	5860	7138	0.2	8.6	223.7	58.7	147.0	15.8

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	1.47	10.6	4.2	0.6	0.1	0.85	1.35	2.12	
02	1.52	9.7	4.4	0.6	0.1	0.92	1.44	2.12	
03	2.26	10.6	5.4	1.2	0.3	0.99	2.04	3.21	
04	3.78	12.6	7.6	2.5	0.7	2.78	3.54	4.84	
05	4.10	12.7	7.4	2.6	1.0	2.63	3.71	4.49	
06	5.28	11.7	7.8	3.4	1.5	3.59	5.20	6.72	
07	4.51	10.2	6.5	3.0	1.6	3.16	4.30	5.60	
08	4.16	9.4	6.2	2.6	1.2	2.38	3.56	5.22	
09	3.43	9.2	5.5	2.3	0.8	1.87	3.25	4.57	
10	2.77	10.1	5.6	1.7	0.5	1.42	2.80	3.51	
11	2.22	9.6	5.0	1.4	0.5	1.27	1.77	2.74	
12	1.63	10.0	4.5	0.8	0.2	1.04	1.43	2.08	
Summary	37.13	126.4	70.1	22.7	8.5	22.90	34.39	47.22	

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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	13.70	10.1	3.9	1.3	0.6	0.1	24.2	16.4	11.8	3.1	9.00	12.40	19.00
02	12.80	8.6	3.7	1.3	0.5	0.1	22.4	16.8	11.8	3.2	7.50	12.00	14.40
03	7.00	5.3	2.1	0.7	0.3	0.0	10.1	6.4	4.2	0.4	3.50	6.50	9.80
04	2.60	1.9	0.8	0.2	0.1	0.0	1.3	0.4	0.2	0.0	0.00	0.90	4.40
05	0.10	0.1	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	0.60	0.5	0.2	0.1	0.0	0.0	0.2	0.1	0.0	0.0	0.00	0.00	0.20
11	3.00	3.2	1.0	0.1	0.1	0.0	3.3	0.8	0.2	0.0	0.30	1.90	4.30
12	12.00	8.2	3.2	1.4	0.5	0.1	16.0	9.7	6.3	1.5	2.60	7.40	20.80
Summary	51.8	37.9	14.9	5.1	2.1	0.3	77.5	50.6	34.5	8.2	22.9	41.1	72.9

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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	1.0	6.2	63.4	230.0	559.8	839.8	987.2	920.5	658.5	318.1	77.4	8.3
45	0.0	1.8	31.1	130.4	408.9	689.9	832.3	765.6	509.8	198.8	34.7	2.6
50	0.0	0.3	14.8	65.0	272.2	540.0	677.3	610.6	365.9	109.3	12.5	0.6
55	0.0	0.0	6.5	28.6	162.3	392.5	522.3	455.8	236.9	50.9	3.7	0.1
60	0.0	0.0	2.7	9.7	83.3	253.7	367.9	303.5	132.6	19.6	0.9	0.0
Growing Degree Units for Corn (Monthly)												
50/86	0.4	3.6	40.2	137.6	330.8	541.3	664.4	606.8	402.9	175.5	39.9	3.1

Growing Degree Units (Accumulated Monthly)												
40	1	7	71	301	860	1700	2687	3608	4266	4584	4662	4670
45	0	2	33	163	572	1262	2094	2860	3370	3569	3603	3606
50	0	0	15	80	352	892	1570	2180	2546	2655	2668	2668
55	0	0	6	35	197	590	1112	1568	1805	1856	1860	1860
60	0	0	3	12	96	349	717	1021	1153	1173	1174	1174
Growing Degree Units for Corn (Monthly Accumulated)												
50/86	0	4	44	182	513	1054	1718	2325	2728	2904	2943	2947

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