

Summary of Monthly Normals
1991-2020

Generated on 04/29/2024

Current Location: Elev: 970 ft. Lat: 44.9903° N Lon: 93.1800° W
Station: U OF MN ST PAUL, MN US USC00218450

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	21.2	5.5	13.3	4.8	6.1	5.4	0.0	0.0	0.0	0.0	0.0	0.0	1290.7	1352.8	1445.8	1600.9	0.0	0.0	0.1	23.3	30.7	10.7
02	26.5	9.4	17.9	5.9	6.9	6.4	0.0	0.0	0.0	0.0	0.0	0.0	1037.2	1093.3	1177.2	1317.3	0.0	0.0	0.9	17.1	26.7	6.9
03	39.4	22.3	30.9	5.6	5.2	5.4	3.5	2.3	1.1	0.2	0.0	0.0	752.2	813.0	904.8	1058.8	0.0	0.0	7.3	6.9	24.8	1.4
04	54.7	35.6	45.2	4.9	3.8	4.2	30.1	20.8	11.3	3.2	0.6	0.3	325.7	376.3	456.8	598.8	0.0	0.1	20.9	0.8	10.4	0.0
05	67.1	48.2	57.7	3.9	3.1	3.4	158.0	123.3	80.7	34.2	10.3	5.8	76.0	103.2	153.6	262.1	0.0	0.8	30.0	0.0	0.9	0.0
06	77.2	58.5	67.9	2.7	2.5	2.4	389.2	332.7	252.5	136.1	54.5	34.3	3.9	7.4	17.2	50.8	0.0	2.1	30.0	0.0	0.0	0.0
07	81.4	62.8	72.1	3.1	2.8	2.8	530.0	468.2	376.0	229.3	107.8	71.4	0.0	0.2	1.1	9.2	0.1	4.3	31.0	0.0	0.0	0.0
08	79.1	60.5	69.8	2.6	2.4	2.4	459.0	397.7	307.4	170.2	67.7	41.5	0.3	1.0	3.7	21.5	0.0	2.4	31.0	0.0	0.0	0.0
09	71.3	52.2	61.8	3.2	3.0	3.0	236.7	192.1	134.1	61.8	20.8	11.8	34.4	49.8	81.7	159.4	0.0	0.8	29.9	0.0	0.3	0.0
10	57.3	38.9	48.1	4.0	2.9	3.3	46.8	33.4	19.1	6.3	1.2	0.6	260.8	309.3	388.0	530.2	0.0	0.0	23.9	0.3	7.0	0.0
11	40.1	25.2	32.6	6.6	5.1	5.8	2.5	1.3	0.3	0.0	0.0	0.0	672.9	731.7	820.7	970.5	0.0	0.0	7.9	6.9	21.6	0.3
12	26.4	12.5	19.5	5.2	5.7	5.4	0.0	0.0	0.0	0.0	0.0	0.0	1101.8	1163.9	1256.9	1411.9	0.0	0.0	0.5	18.9	29.8	4.8
Summary	53.5	36.0	44.7	4.4	4.1	4.2	1856	1572	1182	641	263	166	5556	6002	6708	7991	0.1	10.5	213.4	74.2	152.2	24.1

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	0.68	7.0	2.2	0.1	0.1	0.35	0.63	0.87
02	0.75	5.8	2.3	0.3	0.0	0.27	0.72	1.03
03	1.61	8.5	4.2	0.8	0.2	1.04	1.35	2.11
04	3.02	10.4	6.3	2.1	0.5	1.93	2.73	3.67
05	4.23	13.1	8.2	2.9	0.9	2.87	3.85	5.90
06	4.60	12.7	7.9	3.1	1.2	3.34	4.25	5.48
07	4.55	11.3	7.0	2.8	1.3	2.26	4.41	6.26
08	4.52	10.8	6.4	3.0	1.3	2.93	3.70	6.01
09	3.29	10.9	5.3	2.0	0.8	1.97	2.98	4.75
10	2.89	10.4	5.4	2.0	0.7	1.43	2.37	4.42
11	1.53	7.1	3.4	0.9	0.2	0.72	1.22	1.75
12	1.06	7.5	3.1	0.3	0.1	0.47	0.83	1.48
Summary	32.73	115.5	61.7	20.3	7.3	19.58	29.04	43.73

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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	8.30	4.2	1.4	0.4	0.0	0.0	19.6	15.2	10.5	3.8	4.90	5.80	11.10
02	12.30	3.6	1.8	0.7	0.3	0.0	16.4	13.5	12.7	6.8	6.50	13.30	15.20
03	4.00	2.2	0.9	0.3	0.2	0.0	9.1	7.9	6.8	4.5	0.00	1.60	7.60
04	2.10	1.1	0.7	0.3	0.2	0.0	1.7	1.1	0.6	0.1	0.00	0.00	0.40
05	0.00	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	0.50	0.4	0.1	0.0	0.0	0.0	0.4	0.1	0.1	0.0	0.00	0.00	0.00
11	3.00	1.8	0.9	0.2	0.1	0.0	2.5	1.0	0.5	0.0	0.00	1.90	4.20
12	10.20	4.2	1.7	0.6	0.3	0.0	12.2	8.6	4.8	0.1	5.30	8.10	15.90
Summary	40.4	17.6	7.5	2.5	1.1	0.0	61.9	47.4	36.0	15.3	16.7	30.7	54.4

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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	0.0	2.0	43.5	219.3	549.6	835.2	994.8	923.6	652.5	288.4	54.6	2.1
45	0.0	0.5	20.2	129.8	401.9	685.2	839.8	768.6	504.8	179.8	24.2	0.6
50	0.0	0.1	8.9	67.3	267.8	535.9	684.9	613.6	363.5	98.8	8.8	0.0
55	0.0	0.0	3.5	30.1	158.0	389.2	530.0	459.0	236.7	46.8	2.5	0.0
60	0.0	0.0	1.1	11.3	80.7	252.5	376.0	307.4	134.1	19.1	0.3	0.0
Growing Degree Units for Corn (Monthly)												
50/86	0.1	1.2	25.6	122.4	309.1	535.3	672.9	609.6	390.1	155.2	27.1	1.0
Growing Degree Units (Accumulated Monthly)												
40	0	2	46	265	814	1650	2644	3568	4220	4509	4564	4566
45	0	0	21	150	552	1238	2077	2846	3351	3531	3555	3555
50	0	0	9	76	344	880	1565	2178	2542	2641	2650	2650
55	0	0	4	34	192	581	1111	1570	1806	1853	1856	1856
60	0	0	1	12	93	346	722	1029	1163	1182	1182	1182
Growing Degree Units for Corn (Monthly Accumulated)												
50/86	0	1	27	149	458	994	1667	2276	2666	2821	2849	2850

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