

Summary of Monthly Normals
1991-2020

Generated on 04/28/2024

Current Location: Elev: 904 ft. Lat: 46.8875° N Lon: 96.7483° W

Station: MOORHEAD, MN US USC00215586

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	17.2	-0.3	8.4	5.9	6.6	6.2	0.0	0.0	0.0	0.0	0.0	0.0	1442.6	1504.6	1597.8	1752.8	0.0	0.0	0.2	26.4	31.0	16.9
02	22.6	3.9	13.3	6.7	7.2	6.8	0.0	0.0	0.0	0.0	0.0	0.0	1168.7	1224.7	1308.8	1448.8	0.0	0.0	0.1	21.1	27.4	11.3
03	36.6	17.7	27.1	6.1	6.1	6.0	1.3	0.7	0.2	0.0	0.0	0.0	864.6	926.1	1018.5	1173.3	0.0	0.0	5.9	10.8	26.0	3.8
04	54.1	31.8	42.9	5.5	4.1	4.6	15.1	9.4	4.2	0.8	0.1	0.0	376.7	431.0	515.8	662.4	0.0	0.1	19.4	1.0	15.2	0.0
05	68.5	45.2	56.8	3.4	3.1	3.0	144.5	110.9	70.6	27.0	7.5	3.7	87.3	115.8	168.4	279.8	0.0	0.7	29.5	0.0	2.2	0.0
06	77.8	56.4	67.1	2.9	2.5	2.6	366.7	310.3	230.6	119.1	44.1	26.3	3.9	7.5	17.8	56.2	0.0	1.5	30.0	0.0	0.0	0.0
07	81.8	60.7	71.2	3.2	2.5	2.8	503.8	442.1	350.6	206.9	91.9	60.0	0.1	0.4	1.9	13.2	0.0	3.4	31.0	0.0	0.0	0.0
08	80.5	58.5	69.5	2.7	1.9	2.2	449.9	388.9	299.9	163.8	66.5	40.7	0.7	1.6	5.6	24.5	0.0	3.0	31.0	0.0	0.0	0.0
09	71.5	48.5	60.0	2.8	2.8	2.6	195.1	154.3	103.8	45.5	14.0	7.6	45.2	64.4	103.9	195.6	0.0	0.8	29.8	0.0	0.6	0.0
10	55.2	35.5	45.4	4.5	4.1	3.9	27.6	18.8	9.8	2.8	0.5	0.2	326.8	380.0	464.0	611.9	0.0	0.1	21.4	0.4	11.0	0.0
11	37.8	21.1	29.4	6.7	5.5	6.0	0.0	0.0	0.0	0.0	0.0	0.0	766.5	826.5	916.5	1066.5	0.0	0.0	4.9	12.1	25.9	1.4
12	23.2	7.6	15.4	6.7	6.6	6.6	0.0	0.0	0.0	0.0	0.0	0.0	1227.4	1289.4	1382.5	1537.5	0.0	0.0	0.2	23.0	30.9	10.2
Summary	52.2	32.2	42.2	4.8	4.4	4.4	1704	1435	1070	566	225	138	6310	6772	7501	8822	0.0	9.6	203.4	94.8	170.2	43.6

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	0.73	9.2	2.6	0.2	0.1	0.35	0.71	0.96	
02	0.72	7.3	2.3	0.1	0.0	0.37	0.70	0.99	
03	1.33	8.3	3.7	0.8	0.1	0.81	1.17	1.76	
04	1.72	8.0	4.3	1.0	0.2	0.95	1.52	2.30	
05	3.40	11.8	6.2	2.4	1.0	2.32	2.97	3.94	
06	4.66	11.9	7.4	3.0	1.1	2.78	4.33	6.12	
07	3.37	10.1	6.2	2.1	0.7	2.10	3.01	4.25	
08	2.74	8.6	4.5	1.2	0.6	2.09	2.73	3.09	
09	2.94	8.5	4.7	1.8	0.8	1.89	2.53	4.09	
10	2.51	8.8	4.9	1.9	0.6	1.28	2.69	3.58	
11	1.05	7.6	3.3	0.6	0.1	0.36	0.78	1.34	
12	0.92	9.3	2.4	0.2	0.0	0.45	0.83	1.22	
Summary	26.09	109.4	52.5	15.3	5.3	15.75	23.97	33.64	

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U.S. Department of Commerce
National Oceanic & Atmospheric Administration
National Environmental Satellite, Data, and Information Service

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National Centers for Environmental Information
151 Patton Avenue
Asheville, North Carolina 28801

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	12.20	9.8	3.2	1.1	0.4	0.2	29.1	26.3	23.0	13.2	8.10	10.10	16.60
02	7.70	7.2	2.6	0.7	0.2	0.0	26.2	24.3	20.3	13.1	5.50	8.10	10.30
03	9.30	5.4	2.7	1.2	0.4	0.0	18.1	15.3	12.9	7.0	2.60	6.70	15.00
04	4.00	2.1	1.2	0.5	0.2	0.0	3.2	2.3	1.5	0.2	0.00	2.00	6.80
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	0.70	0.9	0.3	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.00	0.00	1.30
11	8.00	5.3	2.3	0.9	0.6	0.1	10.2	4.8	2.9	1.3	0.80	5.00	12.30
12	10.80	9.4	3.6	1.0	0.2	0.0	22.7	14.4	10.9	4.4	5.00	7.60	14.20
Summary	52.7	40.1	15.9	5.4	2.0	0.3	109.7	87.4	71.5	39.2	22.0	39.5	76.5

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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	0.2	1.2	28.8	174.2	525.4	812.8	968.6	914.2	600.3	220.8	25.4	0.1
45	0.0	0.2	11.1	93.3	380.4	662.8	813.6	759.2	453.4	126.9	7.1	0.0
50	0.0	0.0	3.8	41.9	250.7	513.3	658.7	604.3	315.4	63.2	1.2	0.0
55	0.0	0.0	1.3	15.1	144.5	366.7	503.8	449.9	195.1	27.6	0.0	0.0
60	0.0	0.0	0.2	4.2	70.6	230.6	350.6	299.9	103.8	9.8	0.0	0.0
Growing Degree Units for Corn (Monthly)												
50/86	0.3	0.6	20.7	115.3	313.7	516.7	643.6	597.3	362.0	124.8	15.2	0.2
Growing Degree Units (Accumulated Monthly)												
40	0	1	30	204	730	1543	2511	3425	4026	4246	4272	4272
45	0	0	11	105	485	1148	1961	2721	3174	3301	3308	3308
50	0	0	4	46	296	810	1468	2073	2388	2451	2452	2452
55	0	0	1	16	161	528	1031	1481	1676	1704	1704	1704
60	0	0	0	4	75	306	656	956	1060	1070	1070	1070
Growing Degree Units for Corn (Monthly Accumulated)												
50/86	0	1	22	137	451	967	1611	2208	2570	2695	2710	2710

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