

Summary of Monthly Normals
1991-2020

Generated on 06/05/2024

Current Location: Elev: 612 ft. Lat: 47.7517° N Lon: 90.3283° W
Station: **GRAND MARAIS, MN US USC00213282**

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	21.4	5.7	13.5	4.7	6.3	5.4	0.0	0.0	0.0	0.0	0.0	0.0	1284.9	1346.9	1439.9	1594.9	0.0	0.0	0.1	24.4	30.7	11.8
02	24.7	7.7	16.2	5.2	6.4	5.7	0.0	0.0	0.0	0.0	0.0	0.0	1086.4	1142.4	1226.4	1366.4	0.0	0.0	0.2	19.5	27.6	9.2
03	33.3	17.9	25.6	4.1	4.9	4.4	0.0	0.0	0.0	0.0	0.0	0.0	911.4	973.4	1066.4	1221.4	0.0	0.0	1.2	9.7	29.0	2.9
04	43.5	28.7	36.1	3.7	2.5	3.0	0.2	0.0	0.0	0.0	0.0	0.0	567.2	627.0	717.0	867.0	0.0	0.0	9.4	1.2	21.1	0.0
05	53.4	37.4	45.4	2.7	2.2	2.3	6.5	3.2	0.9	0.0	0.0	0.0	304.1	362.8	453.6	607.7	0.0	0.0	24.3	0.0	5.4	0.0
06	61.2	44.0	52.6	2.7	2.4	2.4	38.8	23.6	9.3	1.3	0.1	0.0	110.8	155.5	231.3	373.3	0.0	0.0	29.5	0.0	0.1	0.0
07	69.2	51.7	60.4	3.9	3.1	3.4	186.5	140.0	83.1	25.1	4.2	1.5	17.6	33.1	69.3	166.2	0.0	0.6	31.0	0.0	0.0	0.0
08	69.5	54.0	61.8	2.6	2.6	2.4	214.9	160.3	92.0	23.4	3.3	1.2	5.7	13.1	37.8	124.2	0.0	0.1	31.0	0.0	0.0	0.0
09	61.9	47.3	54.6	2.7	3.0	2.6	72.7	46.3	20.1	2.9	0.3	0.1	84.7	118.3	182.1	314.9	0.0	0.0	29.6	0.0	0.8	0.0
10	49.7	36.4	43.0	2.8	2.9	2.7	3.5	1.2	0.3	0.0	0.0	0.0	373.9	433.7	525.7	680.4	0.0	0.0	18.7	0.1	9.9	0.0
11	36.6	24.4	30.5	4.5	4.2	4.3	0.0	0.0	0.0	0.0	0.0	0.0	735.0	795.0	885.0	1035.0	0.0	0.0	3.3	6.8	23.8	0.3
12	26.3	12.6	19.5	4.8	5.8	5.2	0.0	0.0	0.0	0.0	0.0	0.0	1102.0	1164.0	1257.0	1412.0	0.0	0.0	0.0	18.3	29.8	6.6
Summary	45.9	30.7	38.3	3.7	3.9	3.6	523	375	206	53	8	3	6584	7165	8092	9763	0.0	0.7	178.3	80.0	178.2	30.8

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	0.99	6.9	3.3	0.2	0.1	0.61	0.98	1.22
02	0.72	5.3	2.2	0.2	0.0	0.26	0.51	0.99
03	0.95	5.3	2.4	0.4	0.1	0.32	0.94	1.43
04	1.84	6.5	4.3	1.2	0.2	0.80	1.83	2.37
05	2.61	9.1	5.9	1.8	0.5	2.07	2.37	3.18
06	3.55	10.5	6.8	2.4	0.7	2.38	3.09	4.60
07	3.39	10.3	6.6	2.2	0.6	2.10	3.08	4.63
08	2.56	8.6	5.9	1.6	0.5	1.86	2.42	3.19
09	2.83	10.2	6.4	2.2	0.6	1.67	2.47	3.84
10	3.04	9.4	5.8	1.9	0.8	2.03	2.59	3.48
11	1.81	7.1	4.1	1.2	0.4	0.94	1.46	2.68
12	1.46	7.3	4.1	0.5	0.1	0.84	1.26	1.97
Summary	25.75	96.5	57.8	15.8	4.6	15.88	23.00	33.58

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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	15.60	6.5	5.5	2.2	1.0	0.1	28.4	26.0	22.7	18.0	12.50	15.70	21.50
02	8.70	4.8	3.8	1.4	0.4	0.1	28.4	26.5	23.9	19.8	4.60	7.60	11.10
03	6.00	2.7	2.3	0.9	0.2	0.0	26.1	22.5	19.9	13.8	2.20	6.30	9.10
04	3.30	1.6	1.2	0.5	0.1	0.0	8.6	4.8	3.2	1.3	0.00	1.60	4.00
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	0.10	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00
11	3.80	2.4	1.8	0.5	0.2	0.0	6.1	2.4	1.3	0.4	1.20	3.00	5.70
12	13.40	5.6	4.6	2.1	0.6	0.1	21.4	15.2	12.5	6.1	6.70	11.50	18.60
Summary	50.9	23.7	19.2	7.6	2.5	0.3	119.0	97.4	83.5	59.4	27.2	45.7	70.0

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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	0.2	3.0	36.8	184.7	378.2	633.8	674.1	438.4	145.3	14.4	0.1
45	0.0	0.0	0.3	10.3	81.0	231.8	478.9	519.2	293.6	62.9	2.5	0.0
50	0.0	0.0	0.0	1.9	25.0	110.0	325.7	364.5	166.7	18.8	0.1	0.0
55	0.0	0.0	0.0	0.2	6.5	38.8	186.5	214.9	72.7	3.5	0.0	0.0
60	0.0	0.0	0.0	0.0	0.9	9.3	83.1	92.0	20.1	0.3	0.0	0.0
Growing Degree Units for Corn (Monthly)												
50/86	0.0	0.0	1.9	18.5	79.9	175.1	344.3	375.2	206.4	49.4	3.7	0.0

Growing Degree Units (Accumulated Monthly)												
40	0	0	3	40	225	603	1237	1911	2349	2494	2509	2509
45	0	0	0	11	92	323	802	1322	1615	1678	1680	1680
50	0	0	0	2	27	137	463	827	994	1013	1013	1013
55	0	0	0	0	7	46	232	447	520	523	523	523
60	0	0	0	0	1	10	93	185	205	206	206	206
Growing Degree Units for Corn (Monthly Accumulated)												
50/86	0	0	2	20	100	275	620	995	1201	1251	1254	1254

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