

Summary of Monthly Normals
1991-2020

Generated on 05/23/2024

Current Location: Elev: 730 ft. Lat: 47.9711° N Lon: 89.6908° W

Station: GRAND PORTAGE, MN US USC00213296

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	20.3	0.7	10.5	5.0	6.6	5.7	0.0	0.0	0.0	0.0	0.0	0.0	1379.4	1441.4	1534.3	1689.4	0.0	0.0	0.0	26.5	30.9	15.8
02	24.3	2.0	13.1	5.8	7.0	6.3	0.0	0.0	0.0	0.0	0.0	0.0	1171.8	1227.8	1311.7	1451.8	0.0	0.0	0.3	21.3	27.7	13.1
03	34.4	13.0	23.7	4.1	5.2	4.6	0.0	0.0	0.0	0.0	0.0	0.0	970.4	1032.3	1125.3	1280.3	0.0	0.0	2.1	12.1	29.6	5.2
04	45.4	26.2	35.8	4.0	3.0	3.3	0.6	0.2	0.0	0.0	0.0	0.0	576.6	636.2	726.0	876.0	0.0	0.0	10.2	2.2	25.1	0.0
05	58.1	36.8	47.4	3.1	2.6	2.7	20.7	12.6	4.4	0.4	0.0	0.0	254.7	308.7	393.5	544.5	0.0	0.0	25.5	0.1	9.3	0.0
06	67.7	46.1	56.9	2.4	2.0	2.0	103.9	69.0	32.7	7.1	1.0	0.4	46.9	72.1	125.8	250.2	0.0	0.1	29.7	0.0	0.2	0.0
07	73.6	52.3	63.0	3.2	2.5	2.8	250.5	194.4	120.7	39.2	6.5	2.5	4.0	10.0	29.3	102.7	0.0	0.3	31.0	0.0	0.0	0.0
08	73.0	52.1	62.6	2.6	2.3	2.3	239.8	184.6	112.8	33.5	6.4	3.0	5.8	12.6	33.8	109.5	0.0	0.3	31.0	0.0	0.0	0.0
09	64.8	44.0	54.4	2.8	2.6	2.5	73.2	47.9	22.8	4.4	0.4	0.1	91.2	125.9	190.9	322.4	0.0	0.0	29.3	0.0	1.7	0.0
10	51.4	33.3	42.4	3.2	2.7	2.7	3.4	1.5	0.4	0.0	0.0	0.0	395.6	455.7	547.6	702.2	0.0	0.0	17.7	0.1	14.7	0.0
11	37.5	21.8	29.6	5.0	4.6	4.7	0.0	0.0	0.0	0.0	0.0	0.0	760.5	820.5	910.5	1060.5	0.0	0.0	3.2	9.0	26.1	1.0
12	25.8	9.2	17.5	4.7	6.3	5.4	0.0	0.0	0.0	0.0	0.0	0.0	1162.5	1224.5	1317.4	1472.5	0.0	0.0	0.0	20.7	30.5	8.9
Summary	48.0	28.1	38.1	3.8	4.0	3.8	692	510	294	85	14	6	6819	7368	8246	9862	0.0	0.7	180.0	92.0	195.8	44.0

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	1.35	8.6	4.5	0.6	0.1	0.90	1.32	1.63
02	1.03	6.2	2.9	0.3	0.0	0.60	0.90	1.39
03	1.33	6.6	3.9	0.6	0.1	0.73	1.36	1.67
04	2.79	8.6	5.5	1.7	0.5	1.44	2.48	3.90
05	3.11	11.3	7.1	2.0	0.5	2.23	2.84	4.16
06	3.58	11.8	6.8	2.4	0.7	2.14	3.32	4.79
07	3.42	11.6	6.9	1.9	0.8	2.07	2.89	4.44
08	3.04	10.2	6.0	2.1	0.7	1.89	3.08	4.10
09	3.13	11.5	6.6	1.8	0.8	2.01	3.16	4.47
10	3.40	11.2	6.4	2.4	0.9	2.45	2.93	4.73
11	2.65	9.2	5.1	1.3	0.4	1.58	2.00	3.54
12	1.74	9.3	5.2	0.9	0.2	1.24	1.59	2.21
Summary	30.57	116.1	66.9	18.0	5.7	19.28	27.87	41.03

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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	12.20	8.0	5.3	1.7	0.7	0.1	29.5	26.7	23.9	14.5	9.70	12.00	15.00
02	8.00	5.6	3.5	1.1	0.5	0.0	28.6	28.3	26.0	18.7	5.00	7.00	10.50
03	8.00	4.3	2.6	0.9	0.4	0.1	28.5	26.8	23.3	17.8	3.50	9.20	10.40
04	7.70	2.9	2.1	1.2	0.5	0.1	11.2	9.0	6.9	2.2	1.60	5.00	9.40
05	0.20	0.2	0.0	0.0	0.0	0.0	0.2	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	0.2	0.0	0.0	0.0	0.00	0.00	0.10
11	6.70	3.8	2.6	1.0	0.2	0.1	8.7	3.9	1.7	0.2	2.90	6.70	8.70
12	11.90	7.9	4.8	1.6	0.5	0.1	24.5	16.0	10.6	2.7	7.10	13.40	16.70
Summary	55.2	33.1	21.0	7.5	2.8	0.5	131.4	110.7	92.4	56.1	29.8	53.3	70.8

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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	5.3	40.9	246.1	507.1	711.3	698.9	432.8	131.2	13.1	0.2
45	0.0	0.0	1.1	12.6	132.2	358.8	556.4	544.0	290.0	57.8	1.9	0.0
50	0.0	0.0	0.3	3.2	58.0	219.4	401.6	389.3	166.1	18.3	0.0	0.0
55	0.0	0.0	0.0	0.6	20.7	103.9	250.5	239.8	73.2	3.4	0.0	0.0
60	0.0	0.0	0.0	0.0	4.4	32.7	120.7	112.8	22.8	0.4	0.0	0.0
Growing Degree Units for Corn (Monthly)												
50/86	0.0	0.3	4.4	31.5	139.6	277.9	418.0	408.3	236.3	66.6	7.1	0.1
Growing Degree Units (Accumulated Monthly)												
40	0	0	6	46	292	800	1511	2210	2643	2774	2787	2787
45	0	0	1	14	146	505	1061	1605	1895	1953	1955	1955
50	0	0	0	4	62	281	682	1072	1238	1256	1256	1256
55	0	0	0	1	21	125	376	616	689	692	692	692
60	0	0	0	0	4	37	158	271	293	294	294	294
Growing Degree Units for Corn (Monthly Accumulated)												
50/86	0	0	5	36	176	454	872	1280	1516	1583	1590	1590

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