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

Summary of Monthly Normals
1991-2020

Generated on 11/11/2026

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

Current Location: Elev: 830 ft. Lat: 47.9217° N Lon: 97.0975° W

Station: **GRAND FORKS UNIV (NWS), ND US USC00323621**

Temperature (°F)

	Mean						Cooling Degree Days Base (above)						Heating Degree Days Base (above)				Mean Number of Days					
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	15.3	-1.3	7.0	6.2	6.8	6.4	0.0	0.0	0.0	0.0	0.0	0.0	1487.7	1549.8	1642.8	1797.8	0.0	0.0	0.0	26.9	30.9	17.5
02	20.4	2.5	11.4	7.0	7.4	7.1	0.0	0.0	0.0	0.0	0.0	0.0	1219.2	1275.3	1359.3	1499.3	0.0	0.0	0.2	22.0	27.6	13.1
03	34.0	16.7	25.4	5.9	5.7	5.7	0.7	0.4	0.1	0.0	0.0	0.0	919.9	981.5	1074.3	1229.2	0.0	0.0	3.9	12.9	28.4	4.3
04	52.0	31.0	41.5	5.5	3.5	4.4	10.6	6.3	2.7	0.6	0.1	0.0	415.7	471.3	557.7	705.6	0.0	0.0	17.6	1.9	16.8	0.0
05	66.5	43.5	55.0	3.7	3.3	3.3	119.6	90.9	55.8	19.9	5.6	3.1	119.6	152.9	210.8	330.0	0.0	0.5	28.6	0.0	3.8	0.0
06	75.9	54.8	65.4	2.9	2.5	2.5	317.6	263.5	187.9	88.0	29.5	16.9	7.3	13.1	27.5	77.6	0.0	1.3	30.0	0.0	0.0	0.0
07	80.1	58.8	69.5	3.3	2.6	2.8	447.9	386.5	296.9	161.4	61.3	35.9	0.1	0.7	4.0	23.5	0.0	2.3	31.0	0.0	0.0	0.0
08	79.2	56.5	67.8	2.5	2.5	2.4	399.3	339.2	252.5	127.4	45.2	25.9	1.2	3.0	9.3	39.1	0.0	2.2	31.0	0.0	0.0	0.0
09	69.7	47.4	58.5	3.1	2.6	2.6	164.1	127.6	82.0	31.7	8.7	4.4	57.8	81.2	125.6	225.2	0.0	0.6	29.6	0.0	0.9	0.0
10	53.3	34.5	43.9	4.6	3.1	3.6	20.7	13.9	7.2	1.6	0.2	0.1	364.8	420.0	506.3	655.7	0.0	0.0	19.2	0.7	12.6	0.0
11	35.0	19.6	27.3	7.1	5.2	6.0	0.1	0.0	0.0	0.0	0.0	0.0	831.1	891.0	981.0	1131.0	0.0	0.0	4.3	12.4	27.1	1.4
12	21.0	5.8	13.4	6.9	6.8	6.8	0.0	0.0	0.0	0.0	0.0	0.0	1289.4	1351.5	1444.5	1599.5	0.0	0.0	0.0	24.5	31.0	10.5
Summary	50.2	30.8	40.5	4.9	4.3	4.5	1481	1228	885	431	151	86	6714	7191	7943	9314	0.0	6.9	195.4	101.3	179.1	46.8

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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	0.49	6.8	1.5	0.1	0.0	0.27	0.47	0.68
02	0.56	6.5	1.9	0.1	0.0	0.28	0.43	0.72
03	0.91	6.6	2.7	0.5	0.0	0.41	0.68	1.36
04	1.19	7.4	3.0	0.7	0.1	0.64	1.05	1.66
05	2.99	10.5	5.9	2.0	0.6	1.60	2.45	4.38
06	4.13	12.1	7.3	2.6	0.9	2.78	4.07	5.47
07	3.55	10.0	6.2	2.2	1.0	1.91	3.15	4.77
08	3.03	8.8	5.4	1.7	0.7	2.29	2.90	3.76
09	2.42	8.7	4.4	1.5	0.5	1.10	2.06	3.02
10	2.00	8.3	4.1	1.3	0.5	0.90	1.82	2.78
11	0.83	6.4	2.3	0.3	0.0	0.27	0.52	1.35
12	0.73	7.6	2.4	0.2	0.0	0.37	0.64	0.98
Summary	22.83	99.7	47.1	13.2	4.3	12.82	20.24	30.93

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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	9.50	8.7	3.0	1.0	0.4	0.1	28.9	25.4	21.0	8.0	5.10	8.00	12.00
02	8.20	7.5	2.7	0.8	0.2	0.0	24.8	22.4	16.9	7.0	4.00	7.00	9.90
03	7.80	5.0	2.4	0.8	0.4	0.1	17.9	14.5	12.1	5.3	2.70	6.80	13.10
04	3.00	2.1	0.8	0.3	0.1	0.0	2.9	1.9	1.1	0.1	0.20	1.20	4.50
05	0.10	0.2	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	1.50	1.2	0.4	0.1	0.1	0.0	0.9	0.4	0.2	0.1	0.00	0.20	1.70
11	5.10	4.8	1.7	0.4	0.2	0.0	9.5	2.8	0.9	0.2	1.40	3.30	7.80
12	13.50	9.6	3.8	1.4	0.6	0.1	23.1	16.7	9.9	1.8	6.20	10.60	18.30
Summary	48.7	39.1	14.8	4.8	2.0	0.3	108.0	84.1	62.1	22.5	19.6	37.1	67.3

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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	0.6	17.0	147.4	471.2	760.3	912.8	863.1	557.3	191.1	19.7	0.0
45	0.0	0.1	6.3	76.8	332.9	610.4	757.8	708.1	412.1	104.5	5.9	0.0
50	0.0	0.0	2.2	32.6	212.7	461.5	602.9	553.3	277.7	49.2	1.3	0.0
55	0.0	0.0	0.7	10.6	119.6	317.6	447.9	399.3	164.1	20.7	0.1	0.0
60	0.0	0.0	0.1	2.7	55.8	187.9	296.9	252.5	82.0	7.2	0.0	0.0
Growing Degree Units for Corn (Monthly)												
50/86	0.0	0.6	12.1	96.1	280.0	471.0	597.2	552.7	325.9	106.9	12.3	0.0

Growing Degree Units (Accumulated Monthly)

40	0	1	18	165	636	1396	2309	3172	3730	3921	3940	3940
45	0	0	6	83	416	1026	1784	2492	2904	3009	3015	3015
50	0	0	2	35	248	709	1312	1865	2143	2192	2193	2193
55	0	0	1	11	131	448	896	1296	1460	1480	1481	1481
60	0	0	0	3	59	246	543	796	878	885	885	885
Growing Degree Units for Corn (Monthly Accumulated)												
50/86	0	1	13	109	389	860	1457	2010	2336	2442	2455	2455

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

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