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: 1658 ft. Lat: 46.7708° N Lon: 100.7603° W

Station: **BISMARCK, ND US USW00024011**

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	23.2	2.4	12.8	6.2	6.0	6.0	0.0	0.0	0.0	0.0	0.0	0.0	1307.9	1370.0	1463.0	1618.0	0.0	0.0	0.6	21.2	30.9	13.7
02	27.8	7.2	17.5	8.1	8.6	8.2	0.0	0.0	0.0	0.0	0.0	0.0	1049.8	1105.8	1189.8	1329.9	0.0	0.0	1.5	17.0	27.6	9.6
03	41.0	19.1	30.1	7.3	5.4	6.2	0.9	0.4	0.2	0.0	0.0	0.0	774.5	836.0	928.7	1083.5	0.0	0.0	9.3	8.9	28.3	3.0
04	56.0	30.4	43.2	4.6	3.1	3.7	13.3	8.0	3.2	0.5	0.1	0.1	367.4	422.0	507.3	654.6	0.0	0.1	20.8	1.5	17.5	0.0
05	68.3	42.4	55.3	3.4	2.5	2.6	114.7	85.4	51.0	16.6	4.0	2.0	104.0	136.6	195.3	315.8	0.0	0.5	29.5	0.0	4.4	0.0
06	77.9	52.9	65.4	3.5	2.3	2.7	319.0	264.5	189.4	88.5	29.6	17.4	7.2	12.6	27.5	76.6	0.1	2.5	30.0	0.0	0.1	0.0
07	84.7	57.9	71.3	4.1	2.2	3.0	505.2	443.6	352.8	211.0	98.7	66.1	0.1	0.5	2.6	15.8	1.1	8.0	31.0	0.0	0.0	0.0
08	83.5	55.7	69.6	3.4	2.4	2.7	454.2	393.8	306.1	173.8	77.4	50.8	1.8	3.4	8.6	31.4	0.8	7.4	31.0	0.0	0.0	0.0
09	73.4	45.9	59.7	3.5	2.7	2.7	189.6	150.1	99.9	43.8	14.6	8.2	50.3	70.7	110.6	204.4	0.1	1.9	29.7	0.0	1.6	0.0
10	57.1	32.6	44.8	4.9	2.9	3.5	23.3	15.1	7.3	1.7	0.3	0.2	338.0	391.7	476.9	626.3	0.0	0.1	22.3	1.0	15.3	0.1
11	40.6	19.1	29.9	7.1	4.2	5.3	0.1	0.0	0.0	0.0	0.0	0.0	754.6	814.5	904.5	1054.5	0.0	0.0	8.2	8.6	27.7	1.7
12	27.7	8.1	17.9	7.0	6.0	6.4	0.0	0.0	0.0	0.0	0.0	0.0	1149.8	1211.9	1304.9	1460.0	0.0	0.0	1.6	18.7	30.9	8.6
Summary	55.1	31.1	43.1	5.3	4.0	4.4	1620	1361	1010	536	225	145	5905	6376	7120	8471	2.1	20.5	215.5	76.9	184.3	36.7

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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	0.48	7.8	1.5	0.1	0.0	0.26	0.39	0.69
02	0.52	7.9	1.6	0.0	0.0	0.32	0.41	0.62
03	0.84	7.5	2.4	0.4	0.0	0.45	0.65	1.15
04	1.34	8.1	3.5	0.6	0.1	0.73	1.05	1.69
05	2.50	10.4	5.6	1.5	0.4	1.16	2.00	3.20
06	3.36	11.6	6.4	2.1	0.6	2.52	3.10	3.85
07	3.07	9.7	6.1	1.9	0.6	1.64	2.63	3.43
08	2.50	8.0	4.3	1.6	0.6	1.05	1.94	2.96
09	1.72	7.3	3.1	0.9	0.4	0.84	1.30	2.23
10	1.43	7.2	3.3	0.7	0.3	0.69	1.10	2.09
11	0.69	6.6	2.0	0.3	0.0	0.14	0.56	1.06
12	0.60	7.7	1.8	0.1	0.0	0.24	0.48	0.84
Summary	19.05	99.8	41.6	10.2	3.0	10.04	15.61	23.81

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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	8.90	9.9	2.5	0.8	0.2	0.0	26.0	19.1	12.4	6.2	3.50	6.70	14.40
02	7.50	8.7	2.6	0.5	0.1	0.0	20.5	14.6	9.9	3.6	4.60	6.40	9.50
03	8.50	6.3	2.3	0.8	0.4	0.0	12.7	8.3	5.5	1.0	2.90	6.20	12.80
04	4.60	2.7	1.1	0.5	0.2	0.1	3.3	2.0	1.3	0.3	0.10	3.00	6.20
05	0.40	0.4	0.1	0.0	0.0	0.0	0.1	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	2.50	1.3	0.6	0.3	0.2	0.0	1.0	0.4	0.2	0.1	0.00	0.40	2.80
11	8.00	5.9	2.0	0.8	0.4	0.0	8.6	5.1	2.7	0.5	0.90	6.90	12.00
12	10.10	9.4	2.8	0.8	0.4	0.1	19.3	13.5	9.4	2.2	5.40	8.30	12.80
Summary	50.5	44.6	14.0	4.5	1.9	0.2	91.5	63.0	41.4	13.9	17.4	37.9	70.5

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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	0.6	3.0	37.6	174.6	479.4	761.9	970.1	917.4	590.4	214.8	29.3	1.0
45	0.1	0.8	13.8	91.5	336.8	612.1	815.1	762.4	444.2	120.8	9.8	0.2
50	0.0	0.2	4.0	39.9	211.8	463.1	660.1	607.5	307.6	58.2	2.3	0.0
55	0.0	0.0	0.9	13.3	114.7	319.0	505.2	454.2	189.6	23.3	0.1	0.0
60	0.0	0.0	0.2	3.2	51.0	189.4	352.8	306.1	99.9	7.3	0.0	0.0
Growing Degree Units for Corn (Monthly)												
50/86	1.0	3.9	40.3	135.8	299.3	475.3	626.5	584.4	368.5	152.1	32.3	2.8

Growing Degree Units (Accumulated Monthly)

40	1	4	41	216	695	1457	2427	3345	3935	4150	4179	4180
45	0	1	15	106	443	1055	1870	2633	3077	3198	3207	3208
50	0	0	4	44	256	719	1379	1987	2294	2352	2355	2355
55	0	0	1	14	129	448	953	1407	1597	1620	1620	1620
60	0	0	0	3	54	244	597	903	1003	1010	1010	1010
Growing Degree Units for Corn (Monthly Accumulated)												
50/86	1	5	45	181	480	956	1582	2166	2535	2687	2719	2722

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

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