

Summary of Monthly Normals
1991-2020

Current Location: Elev: 1619 ft. Lat: 48.8217° N Lon: 100.4528° W
Station: **BOTTINEAU, ND US USC00320941**
Generated on 04/27/2024

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	15.2	-4.0	5.6	6.1	7.1	6.5	0.0	0.0	0.0	0.0	0.0	0.0	1531.2	1593.2	1686.2	1841.2	0.0	0.0	0.0	27.2	31.0	17.2
02	19.8	-0.4	9.7	7.7	8.5	8.0	0.0	0.0	0.0	0.0	0.0	0.0	1268.2	1324.2	1408.2	1548.3	0.0	0.0	0.1	22.5	28.0	14.8
03	32.9	13.7	23.3	6.7	6.2	6.3	0.4	0.1	0.0	0.0	0.0	0.0	983.0	1044.8	1137.7	1292.7	0.0	0.0	3.0	14.0	29.6	5.8
04	51.3	28.2	39.8	5.7	4.0	4.7	6.9	3.7	1.3	0.1	0.0	0.0	464.5	521.3	608.9	757.7	0.0	0.0	17.0	2.4	20.0	0.4
05	65.2	41.0	53.1	3.3	3.1	2.9	84.3	59.9	33.0	9.9	2.0	0.7	143.3	180.9	247.0	378.9	0.0	0.2	28.3	0.0	5.8	0.0
06	74.0	51.5	62.8	3.0	2.5	2.5	248.4	198.7	133.0	53.8	14.4	7.4	16.0	26.3	50.6	121.4	0.0	0.6	30.0	0.0	0.0	0.0
07	79.3	56.1	67.7	3.6	2.6	2.9	395.1	334.9	248.0	124.0	42.1	23.9	1.5	3.3	9.4	40.4	0.1	2.0	31.0	0.0	0.0	0.0
08	79.1	53.8	66.5	2.5	2.3	2.2	358.8	300.3	218.0	104.3	34.9	19.3	4.1	7.6	18.2	59.5	0.1	2.6	31.0	0.0	0.0	0.0
09	69.3	44.1	56.7	3.4	3.0	2.9	135.4	103.8	66.3	25.9	6.6	3.4	84.5	112.9	165.5	274.9	0.0	0.7	29.1	0.0	2.4	0.0
10	52.6	30.0	41.3	4.6	3.6	3.7	13.8	9.1	4.6	1.2	0.3	0.1	438.5	495.8	584.4	735.9	0.0	0.0	17.8	1.6	19.2	0.1
11	34.2	15.6	24.9	6.7	6.1	6.2	0.0	0.0	0.0	0.0	0.0	0.0	903.0	963.0	1053.0	1203.0	0.0	0.0	4.0	13.5	28.6	4.2
12	20.1	2.6	11.4	6.5	6.6	6.5	0.0	0.0	0.0	0.0	0.0	0.0	1352.9	1414.9	1507.9	1663.0	0.0	0.0	0.1	25.8	31.0	12.3
Summary	49.4	27.7	38.6	5.0	4.6	4.6	1243	1010	704	319	100	55	7191	7688	8477	9917	0.2	6.1	191.4	107.0	195.6	54.8

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	0.53	6.7	2.0	0.1	0.0	0.27	0.47	0.60
02	0.53	5.3	1.8	0.1	0.0	0.21	0.43	0.81
03	0.76	5.5	2.1	0.3	0.0	0.41	0.55	1.19
04	1.07	7.0	3.1	0.3	0.0	0.53	0.97	1.37
05	2.58	9.8	6.0	1.4	0.3	1.82	2.28	3.26
06	3.87	12.6	8.3	2.8	0.7	2.60	4.06	4.92
07	2.75	9.3	5.9	1.8	0.5	1.64	2.07	3.64
08	2.61	8.1	5.3	1.5	0.6	1.34	2.53	3.00
09	1.52	7.1	4.1	0.7	0.1	0.83	1.26	2.20
10	1.50	7.4	3.8	0.6	0.3	0.52	1.18	2.19
11	0.78	6.7	2.6	0.2	0.0	0.30	0.69	1.10
12	0.70	6.7	2.6	0.1	0.0	0.44	0.61	0.75
Summary	19.20	92.2	47.6	9.9	2.5	10.91	17.10	25.03

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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	9.10	6.4	4.2	0.6	0.3	0.0	31.0	30.8	28.4	16.4	5.80	8.20	11.00
02	6.90	4.7	2.7	0.7	0.2	0.0	28.0	27.2	24.7	16.3	3.00	6.00	8.50
03	7.30	4.2	2.7	0.7	0.3	0.0	24.5	20.2	15.3	9.1	3.00	5.20	11.00
04	4.00	1.7	1.2	0.5	0.2	0.0	3.4	1.4	0.7	0.1	0.00	2.00	6.00
05	1.10	0.7	0.6	0.3	0.0	0.0	0.5	0.2	0.1	0.0	0.00	0.00	0.40
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	0.10	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.00	0.00	0.00
10	4.10	1.7	1.2	0.6	0.2	0.0	1.4	0.5	0.2	0.0	0.00	3.60	6.00
11	8.20	5.0	3.6	0.9	0.3	0.0	13.7	8.4	4.2	0.6	3.80	8.40	10.80
12	9.00	6.2	4.6	0.8	0.4	0.0	28.2	22.7	18.4	6.9	5.20	10.00	11.90
Summary	49.8	30.6	20.8	5.1	1.9	0.0	130.8	111.4	92.0	49.4	20.8	43.4	65.6

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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	13.6	122.5	415.8	682.4	858.5	819.7	504.8	151.5	14.6	0.1
45	0.0	0.0	4.9	60.3	280.8	532.8	703.6	664.8	364.1	80.7	4.5	0.0
50	0.0	0.0	1.5	23.7	167.7	385.9	548.6	510.2	236.1	36.2	0.8	0.0
55	0.0	0.0	0.4	6.9	84.3	248.4	395.1	358.8	135.4	13.8	0.0	0.0
60	0.0	0.0	0.0	1.3	33.0	133.0	248.0	218.0	66.3	4.6	0.0	0.0
Growing Degree Units for Corn (Monthly)												
50/86	0.1	0.2	10.9	89.6	249.5	410.1	546.8	516.1	308.0	104.8	13.5	0.2

Growing Degree Units (Accumulated Monthly)												
40	0	0	14	136	552	1234	2093	2913	3418	3569	3584	3584
45	0	0	5	65	346	879	1582	2247	2611	2692	2696	2696
50	0	0	2	25	193	579	1127	1638	1874	1910	1911	1911
55	0	0	0	7	92	340	735	1094	1229	1243	1243	1243
60	0	0	0	1	34	167	415	633	700	704	704	704
Growing Degree Units for Corn (Monthly Accumulated)												
50/86	0	0	11	101	350	760	1307	1823	2131	2236	2250	2250

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