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

Summary of Monthly Normals 1991-2020

Generated on 11/06/2026

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

Current Location: Elev: 4913 ft. Lat: 45.6622° N Lon: 111.0464° W

Station: **BOZEMAN MONTANA STATE UNIV, MT US USC00241044**

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	34.2	15.1	24.6	3.6	4.6	4.0	0.0	0.0	0.0	0.0	0.0	0.0	940.9	1002.9	1095.9	1250.9	0.0	0.0	1.5	9.7	29.7	4.2
02	36.8	16.6	26.7	5.8	5.7	5.7	0.0	0.0	0.0	0.0	0.0	0.0	792.2	848.3	932.3	1072.3	0.0	0.0	4.0	7.4	25.8	2.9
03	46.1	23.9	35.0	4.9	4.2	4.5	0.1	0.0	0.0	0.0	0.0	0.0	620.3	682.1	775.1	930.1	0.0	0.0	13.2	2.5	25.1	1.0
04	54.5	30.5	42.5	3.1	2.5	2.7	6.3	3.1	0.9	0.0	0.0	0.0	381.2	438.1	525.9	675.0	0.0	0.0	21.1	0.4	18.6	0.0
05	63.2	38.8	51.0	3.7	1.9	2.7	49.9	32.3	14.5	1.6	0.1	0.0	174.0	218.4	293.5	435.6	0.0	0.0	28.7	0.0	5.9	0.0
06	71.7	45.6	58.6	3.3	1.9	2.5	153.2	114.7	68.0	20.4	2.7	0.8	43.7	65.2	108.5	210.9	0.0	0.6	29.8	0.0	0.7	0.0
07	82.1	51.7	66.9	4.3	2.4	3.3	371.7	313.0	228.9	106.8	30.0	14.8	3.1	6.3	15.2	48.0	0.2	5.7	31.0	0.0	0.0	0.0
08	81.3	50.0	65.6	2.9	2.1	2.4	336.9	279.3	197.8	85.1	21.3	9.8	6.9	11.3	22.8	65.0	0.0	4.6	31.0	0.0	0.1	0.0
09	71.4	42.4	56.9	3.1	2.3	2.5	130.2	96.2	54.8	14.9	1.6	0.4	73.3	99.3	147.8	257.9	0.0	0.7	29.2	0.0	2.4	0.0
10	57.3	32.4	44.9	4.1	3.4	3.5	19.6	11.9	5.1	1.0	0.0	0.0	334.2	388.6	474.8	625.7	0.0	0.0	24.4	1.1	15.4	0.2
11	42.3	22.2	32.3	4.8	4.4	4.5	0.5	0.2	0.1	0.0	0.0	0.0	682.9	742.6	832.5	982.5	0.0	0.0	9.3	5.5	24.7	1.5
12	33.3	14.5	23.9	3.8	4.1	3.9	0.0	0.0	0.0	0.0	0.0	0.0	963.8	1025.9	1118.9	1274.0	0.0	0.0	1.8	11.9	29.3	3.6
Summary	56.2	32.0	44.1	3.9	3.3	3.5	1068	851	570	230	56	26	5016	5529	6343	7828	0.2	11.6	225.0	38.5	177.7	13.4

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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	0.86	10.7	3.2	0.2	0.0	0.58	0.76	1.01
02	0.83	9.5	3.1	0.1	0.0	0.52	0.61	1.01
03	1.42	11.8	4.7	0.4	0.0	0.87	1.39	1.79
04	2.51	13.7	7.1	1.3	0.1	1.94	2.41	3.17
05	2.93	15.4	8.1	1.6	0.2	1.95	2.81	3.67
06	3.27	15.3	8.0	1.8	0.4	2.55	3.45	4.37
07	1.33	10.1	3.8	0.5	0.1	0.51	1.18	1.72
08	1.32	10.1	3.8	0.6	0.1	0.78	0.93	1.89
09	1.44	9.0	4.3	0.7	0.0	0.79	1.35	1.88
10	1.84	11.0	4.9	1.0	0.1	1.13	1.73	2.22
11	1.25	10.2	3.8	0.4	0.1	0.83	1.18	1.61
12	1.03	11.0	3.5	0.2	0.0	0.70	0.87	1.33
Summary	20.03	137.8	58.3	8.8	1.1	13.15	18.67	25.67

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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	12.70	9.2	4.1	1.2	0.5	0.0	29.6	24.9	21.0	11.2	9.60	12.50	15.20
02	13.00	8.4	3.9	1.5	0.5	0.0	23.8	20.4	18.1	9.5	7.10	11.10	16.40
03	13.10	8.4	4.5	1.4	0.5	0.1	16.4	12.2	9.2	4.0	8.60	11.60	19.70
04	12.90	6.7	4.0	1.6	0.8	0.0	4.1	2.2	1.1	0.1	6.60	10.30	15.90
05	3.60	1.5	0.9	0.4	0.3	0.0	0.4	0.2	0.2	0.0	0.00	0.70	6.50
06	0.80	0.2	0.1	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	0.10	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	0.40	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00
10	6.00	3.0	1.8	0.8	0.3	0.0	2.7	1.8	0.7	0.1	1.10	4.40	8.90
11	12.50	7.1	4.1	1.5	0.6	0.1	14.8	9.1	5.2	0.7	6.70	12.70	17.80
12	16.20	9.4	5.1	2.0	0.7	0.1	26.4	21.2	16.7	6.3	8.60	15.60	21.20
Summary	91.3	54.1	28.6	10.4	4.2	0.3	118.2	92.0	72.2	31.9	48.3	78.9	121.6

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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	2.8	9.4	52.3	139.6	350.3	559.7	833.2	794.9	510.0	211.7	42.3	4.2
45	0.1	2.1	16.6	63.9	219.5	411.8	678.5	640.4	366.8	116.4	14.3	0.5
50	0.0	0.1	2.7	23.4	117.7	271.5	523.8	486.9	236.3	53.7	3.4	0.0
55	0.0	0.0	0.1	6.3	49.9	153.2	371.7	336.9	130.2	19.6	0.5	0.0
60	0.0	0.0	0.0	0.9	14.5	68.0	228.9	197.8	54.8	5.1	0.1	0.0
Growing Degree Units for Corn (Monthly)												
50/86	1.7	6.5	40.3	102.3	214.7	338.6	527.8	507.4	330.3	148.1	29.1	2.0
Growing Degree Units (Accumulated Monthly)												
40	3	12	64	204	554	1114	1947	2742	3252	3464	3506	3510
45	0	2	19	83	302	714	1392	2033	2400	2516	2530	2531
50	0	0	3	26	144	415	939	1426	1662	1716	1720	1720
55	0	0	0	6	56	210	581	918	1048	1068	1068	1068
60	0	0	0	1	15	83	312	510	565	570	570	570
Growing Degree Units for Corn (Monthly Accumulated)												
50/86	2	8	48	151	366	704	1232	1739	2070	2218	2247	2249

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

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