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: 3581 ft. Lat: 45.8069° N Lon: 108.5422° W

Station: **BILLINGS LOGAN INTL AP, MT US USW00024033**

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	36.0	17.9	27.0	5.3	4.8	5.0	0.0	0.0	0.0	0.0	0.0	0.0	869.6	931.5	1024.5	1179.6	0.0	0.0	4.5	10.3	27.3	4.4
02	39.2	19.7	29.4	8.1	7.1	7.5	0.9	0.3	0.1	0.0	0.0	0.0	716.1	771.6	855.3	995.3	0.0	0.0	7.4	8.1	24.4	3.3
03	49.0	26.9	38.0	6.4	4.7	5.5	4.5	2.2	0.5	0.0	0.0	0.0	533.1	592.9	684.2	838.6	0.0	0.0	16.3	3.6	21.1	1.1
04	56.9	34.7	45.8	3.5	2.8	2.9	20.0	12.5	5.8	0.8	0.0	0.0	295.9	348.4	431.7	576.7	0.0	0.0	22.3	0.9	10.6	0.0
05	66.9	43.8	55.3	4.0	2.1	2.8	111.9	82.4	47.8	14.3	2.3	0.9	101.1	133.6	192.0	313.5	0.0	0.4	28.9	0.0	1.7	0.0
06	77.0	52.4	64.7	3.6	1.9	2.7	302.0	249.1	175.9	80.7	26.7	15.7	11.0	18.1	34.9	89.7	0.1	2.9	29.8	0.0	0.0	0.0
07	87.3	59.3	73.3	4.6	2.9	3.6	567.3	505.9	414.6	269.1	142.3	101.8	0.3	0.9	2.5	12.0	1.3	13.7	31.0	0.0	0.0	0.0
08	85.8	57.5	71.6	3.2	2.4	2.7	518.4	458.2	369.8	230.5	114.1	77.3	2.5	4.2	8.8	24.5	0.5	12.2	31.0	0.0	0.0	0.0
09	74.3	48.6	61.4	3.6	2.3	2.8	234.0	190.5	133.5	61.8	20.3	11.4	40.6	57.1	90.1	168.4	0.0	2.8	29.0	0.0	0.4	0.0
10	58.8	37.1	47.9	4.2	3.2	3.6	45.3	31.5	17.6	5.3	0.8	0.3	263.8	312.0	391.1	533.8	0.0	0.1	24.6	1.4	8.0	0.1
11	45.7	26.7	36.2	5.4	4.3	4.8	3.4	1.6	0.5	0.0	0.0	0.0	567.4	625.6	714.5	864.0	0.0	0.0	12.5	5.0	20.5	0.9
12	36.1	19.2	27.6	5.7	5.2	5.4	0.0	0.0	0.0	0.0	0.0	0.0	847.6	909.6	1002.6	1157.7	0.0	0.0	4.1	10.2	27.5	3.1
Summary	59.4	37.0	48.2	4.8	3.6	4.1	1808	1534	1166	662	306	207	4249	4706	5432	6754	1.9	32.1	241.4	39.5	141.5	12.9

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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	0.55	6.6	1.7	0.1	0.0	0.34	0.48	0.77
02	0.57	6.9	2.2	0.0	0.0	0.24	0.37	0.69
03	0.90	8.6	2.7	0.4	0.0	0.51	0.70	1.25
04	1.72	10.4	4.9	0.8	0.1	1.25	1.55	2.06
05	2.36	12.2	5.8	0.9	0.4	1.32	1.84	2.43
06	2.22	11.2	5.4	1.1	0.3	1.33	1.96	3.00
07	1.22	7.7	2.8	0.6	0.2	0.50	0.85	1.70
08	0.87	6.0	2.1	0.5	0.1	0.20	0.69	1.45
09	1.36	6.8	3.4	0.8	0.2	0.62	1.21	1.79
10	1.37	8.2	3.7	0.6	0.1	0.72	1.32	1.94
11	0.60	6.1	2.0	0.1	0.0	0.31	0.47	0.84
12	0.57	6.2	1.9	0.1	0.0	0.25	0.40	0.67
Summary	14.31	96.9	38.6	6.0	1.4	7.59	11.84	18.59

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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	10.60	6.8	3.1	1.3	0.4	0.0	15.8	9.2	4.4	0.9	7.00	10.60	15.60
02	9.10	7.0	3.0	0.8	0.3	0.0	9.4	5.5	3.6	1.0	2.40	6.30	11.50
03	8.20	6.4	2.7	0.7	0.3	0.0	6.6	3.6	1.7	0.5	3.30	8.00	10.70
04	7.50	4.2	2.2	0.9	0.5	0.0	2.3	1.2	0.6	0.0	2.00	5.70	8.80
05	0.90	0.8	0.4	0.1	0.0	0.0	0.2	0.0	0.0	0.0	0.00	0.00	1.50
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	0.30	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	4.50	2.5	1.3	0.5	0.2	0.0	2.0	1.1	0.6	0.0	0.00	3.00	6.60
11	6.50	4.4	2.2	0.7	0.2	0.0	6.5	2.4	1.0	0.3	2.30	5.60	8.90
12	9.80	6.5	3.1	1.0	0.3	0.0	12.4	5.9	3.2	0.6	3.70	6.50	13.70
Summary	57.4	38.8	18.1	6.0	2.2	0.0	55.2	28.9	15.1	3.3	20.7	45.7	77.3

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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	17.5	34.1	109.6	219.7	480.0	741.1	1031.5	980.7	645.2	292.6	85.7	18.4
45	4.1	12.5	49.7	121.8	336.4	591.4	876.8	825.9	499.7	180.1	38.7	4.4
50	0.6	4.1	17.5	55.7	209.6	443.7	721.9	671.4	360.2	97.5	13.6	0.5
55	0.0	0.9	4.5	20.0	111.9	302.0	567.3	518.4	234.0	45.3	3.4	0.0
60	0.0	0.1	0.5	5.8	47.8	175.9	414.6	369.8	133.5	17.6	0.5	0.0
Growing Degree Units for Corn (Monthly)												
50/86	9.1	23.1	78.4	137.6	276.3	447.8	659.5	624.4	389.7	171.8	50.9	9.2

Growing Degree Units (Accumulated Monthly)

40	18	52	161	381	861	1602	2634	3614	4259	4552	4638	4656
45	4	17	66	188	524	1116	1993	2819	3318	3498	3537	3541
50	1	5	22	78	288	731	1453	2124	2485	2582	2596	2596
55	0	1	5	25	137	439	1007	1525	1759	1804	1808	1808
60	0	0	1	6	54	230	645	1014	1148	1166	1166	1166
Growing Degree Units for Corn (Monthly Accumulated)												
50/86	9	32	111	248	524	972	1632	2256	2646	2818	2869	2878

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

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