

Summary of Monthly Normals
1991-2020

Current Location: Elev: 5850 ft. Lat: 45.0708° N Lon: 112.0575° W
Station: **ALDER 17 S, MT US USC00240110**
Generated on 04/28/2024

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	33.6	15.7	24.7	3.8	3.7	3.6	0.0	0.0	0.0	0.0	0.0	0.0	940.9	1002.9	1095.9	1250.9	0.0	0.0	0.9	13.5	29.7	3.8
02	35.8	15.9	25.9	5.1	4.9	4.9	0.0	0.0	0.0	0.0	0.0	0.0	816.0	872.0	955.9	1096.0	0.0	0.0	2.3	8.1	26.7	2.4
03	45.2	22.8	34.0	4.6	3.3	3.8	0.0	0.0	0.0	0.0	0.0	0.0	651.1	713.1	806.1	961.1	0.0	0.0	10.2	3.2	26.8	0.5
04	52.3	28.8	40.5	3.5	2.2	2.6	2.4	0.9	0.1	0.0	0.0	0.0	435.8	494.4	583.5	733.4	0.0	0.0	17.2	0.4	21.1	0.0
05	61.6	35.8	48.7	3.2	1.8	2.3	26.6	14.8	4.7	0.6	0.0	0.0	222.0	272.1	355.1	506.0	0.0	0.0	26.9	0.0	8.8	0.0
06	69.3	42.4	55.9	3.7	1.5	2.3	101.4	71.1	36.0	7.0	0.6	0.1	75.8	105.6	160.5	281.5	0.0	0.1	29.1	0.0	1.7	0.0
07	80.3	48.0	64.2	4.1	2.5	3.1	292.7	237.6	161.5	63.3	14.2	5.7	9.3	16.1	33.1	89.8	0.0	2.9	30.9	0.0	0.2	0.0
08	80.2	47.3	63.7	3.2	2.2	2.5	281.3	225.8	149.9	53.8	10.5	4.4	10.2	16.7	33.8	92.7	0.0	1.6	31.0	0.0	0.4	0.0
09	69.0	39.4	54.2	2.9	1.6	2.0	80.5	55.6	28.3	5.6	0.4	0.2	104.5	139.6	202.4	329.6	0.0	0.0	28.9	0.0	5.0	0.0
10	55.1	30.6	42.8	4.0	2.6	3.1	8.0	3.7	0.7	0.0	0.0	0.0	384.7	442.4	532.3	686.7	0.0	0.0	22.1	1.0	18.2	0.2
11	41.8	21.0	31.4	5.2	4.3	4.6	0.5	0.1	0.0	0.0	0.0	0.0	708.5	768.0	857.9	1008.0	0.0	0.0	7.6	6.7	25.2	1.7
12	33.1	14.1	23.6	2.7	3.2	2.9	0.0	0.0	0.0	0.0	0.0	0.0	973.2	1035.2	1128.1	1283.2	0.0	0.0	0.7	13.7	29.4	2.8
Summary	54.8	30.2	42.5	3.8	2.8	3.1	793	610	381	130	26	10	5332	5878	6745	8319	0.0	4.6	207.8	46.6	193.2	11.4

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	0.29	4.8	1.4	0.0	0.0	0.11	0.26	0.37
02	0.55	4.5	1.7	0.1	0.1	0.22	0.44	0.62
03	0.58	5.1	2.0	0.2	0.0	0.36	0.54	0.76
04	1.28	9.4	4.8	0.5	0.1	0.90	1.24	1.64
05	2.37	11.6	6.8	1.2	0.1	1.49	1.93	3.34
06	2.97	10.5	7.2	1.9	0.5	1.94	2.56	3.55
07	1.17	6.9	3.9	0.7	0.1	0.56	0.98	1.52
08	1.24	7.4	4.4	0.7	0.0	0.68	1.01	1.67
09	1.23	4.6	2.7	0.6	0.1	0.65	1.03	1.80
10	1.29	6.0	3.9	0.8	0.2	0.65	1.18	1.56
11	0.61	5.3	2.2	0.1	0.0	0.31	0.64	0.79
12	0.48	4.7	1.4	0.0	0.0	0.39	0.47	0.58
Summary	14.06	80.8	42.4	6.8	1.2	8.26	12.28	18.20

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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	8.20	5.1	2.8	1.1	0.2	0.0					4.50	6.90	11.50
02	7.50	5.0	3.0	0.5	0.2	0.0					4.40	7.10	10.10
03	8.40	4.2	2.5	0.9	0.4	0.1					4.70	7.50	12.30
04	9.70	4.9	2.5	1.2	0.5	0.1					3.40	8.40	14.20
05	3.60	1.5	0.7	0.4	0.2	0.0					0.00	1.40	4.40
06	0.10	0.2	0.1	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					0.00	0.00	0.00
08	0.00	0.0	0.0	0.0	0.0	0.0					0.00	0.00	0.00
09	0.20	0.2	0.1	0.0	0.0	0.0					0.00	0.00	0.00
10	3.10	2.0	1.4	0.2	0.1	0.0					1.10	2.30	3.60
11	8.00	4.4	2.8	0.9	0.2	0.1					3.20	8.40	12.30
12	8.40	5.5	2.6	0.8	0.2	0.0					6.40	8.50	9.90
Summary	57.2	33.0	18.5	6.0	2.0	0.3	0.0	0.0	0.0	0.0	27.7	50.5	78.3

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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	2.6	4.4	34.0	100.3	284.6	475.8	748.4	736.0	430.1	162.8	37.5	2.6
45	0.0	0.5	8.2	40.0	163.7	330.5	593.6	581.4	290.2	81.9	12.4	0.3
50	0.0	0.0	0.9	12.6	77.8	201.1	439.9	429.0	169.9	32.2	2.6	0.0
55	0.0	0.0	0.0	2.4	26.6	101.4	292.7	281.3	80.5	8.0	0.5	0.0
60	0.0	0.0	0.0	0.1	4.7	36.0	161.5	149.9	28.3	0.7	0.0	0.0
Growing Degree Units for Corn (Monthly)												
50/86	1.1	4.1	29.8	78.2	190.2	294.1	478.2	478.5	291.3	119.6	25.7	0.9

Growing Degree Units (Accumulated Monthly)												
40	3	7	41	141	426	902	1650	2386	2816	2979	3016	3019
45	0	0	9	49	212	543	1136	1718	2008	2090	2102	2103
50	0	0	1	14	91	292	732	1161	1331	1363	1366	1366
55	0	0	0	2	29	130	423	704	785	793	793	793
60	0	0	0	0	5	41	202	352	381	381	381	381
Growing Degree Units for Corn (Monthly Accumulated)												
50/86	1	5	35	113	303	598	1076	1554	1846	1965	1991	1992

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