

Summary of Monthly Normals
1991-2020

Current Location: Elev: 3828 ft. Lat: 46.6056° N Lon: 111.9636° W
Station: **HELENA RGNL AP, MT US USW00024144**
Generated on 05/22/2024

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	32.4	13.5	23.0	6.0	5.9	5.9	0.0	0.0	0.0	0.0	0.0	0.0	993.5	1055.5	1148.5	1303.5	0.0	0.0	2.0	12.8	29.4	6.3
02	37.2	17.2	27.2	7.5	7.1	7.2	0.0	0.0	0.0	0.0	0.0	0.0	778.3	834.3	918.3	1058.4	0.0	0.0	4.8	7.8	26.0	3.3
03	47.5	24.6	36.1	6.1	4.9	5.4	0.3	0.1	0.0	0.0	0.0	0.0	587.8	649.6	742.5	897.5	0.0	0.0	14.5	3.2	25.4	1.1
04	56.7	32.4	44.5	3.1	2.4	2.6	9.0	4.8	1.8	0.1	0.0	0.0	322.5	378.2	465.3	613.6	0.0	0.0	22.3	0.4	15.1	0.0
05	66.4	41.5	53.9	3.6	1.8	2.5	81.4	57.6	31.0	7.2	0.7	0.2	114.1	152.3	218.7	349.8	0.0	0.3	29.3	0.0	3.4	0.0
06	74.7	48.7	61.7	3.9	1.9	2.8	220.8	173.7	114.1	45.2	13.0	6.7	19.8	32.7	63.0	144.1	0.1	2.4	29.8	0.0	0.1	0.0
07	86.1	55.1	70.6	4.6	2.5	3.4	484.2	423.3	334.2	196.9	88.2	56.6	0.9	1.9	5.8	23.4	0.9	12.2	31.0	0.0	0.0	0.0
08	84.6	52.9	68.8	3.6	2.2	2.7	430.6	371.1	284.8	156.2	59.3	33.7	4.5	6.9	13.7	40.0	0.3	10.6	30.9	0.0	0.0	0.0
09	73.3	44.6	58.9	3.6	2.2	2.6	169.2	129.6	81.5	27.9	5.0	1.8	50.8	71.3	113.1	209.5	0.0	1.8	29.3	0.0	1.7	0.0
10	57.6	33.5	45.5	3.5	2.9	3.1	21.5	13.5	5.7	0.5	0.0	0.0	314.5	368.4	453.6	603.4	0.0	0.0	24.1	1.1	13.8	0.2
11	42.8	22.8	32.8	4.9	4.0	4.3	0.5	0.2	0.1	0.0	0.0	0.0	666.5	726.2	816.1	966.0	0.0	0.0	9.1	5.2	25.3	1.4
12	32.6	14.2	23.4	5.2	5.2	5.1	0.0	0.0	0.0	0.0	0.0	0.0	979.3	1041.3	1134.4	1289.5	0.0	0.0	2.3	13.2	29.7	4.5
Summary	57.7	33.4	45.5	4.6	3.6	4.0	1418	1174	853	434	166	99	4832	5319	6093	7499	1.3	27.3	229.4	43.7	169.9	16.8

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	0.39	6.5	1.2	0.0	0.0	0.26	0.33	0.50
02	0.42	6.5	1.3	0.0	0.0	0.15	0.28	0.52
03	0.52	6.9	2.0	0.0	0.0	0.25	0.47	0.80
04	1.02	8.8	3.5	0.2	0.0	0.66	0.79	1.24
05	1.95	11.2	5.3	1.1	0.1	1.41	2.08	2.36
06	2.21	11.5	6.0	1.3	0.2	1.39	2.13	3.02
07	1.06	7.5	3.2	0.4	0.1	0.40	0.76	1.46
08	1.04	6.3	3.1	0.2	0.0	0.41	0.80	1.69
09	0.96	5.8	2.7	0.6	0.1	0.54	0.83	1.26
10	0.78	7.0	2.6	0.3	0.0	0.39	0.56	0.99
11	0.59	6.5	1.9	0.1	0.0	0.20	0.59	0.85
12	0.46	6.6	1.6	0.0	0.0	0.14	0.34	0.72
Summary	11.40	91.1	34.4	4.2	0.5	6.20	9.96	15.41

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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	6.60	5.6	2.3	0.5	0.1	0.0	17.8	12.0	7.8	0.3	3.50	5.50	10.00
02	6.60	5.6	2.5	0.7	0.1	0.0	11.0	6.2	3.2	0.8	1.30	5.00	10.10
03	4.60	3.7	1.6	0.3	0.1	0.0	5.3	3.0	1.8	0.9	0.40	2.30	8.30
04	2.90	2.1	1.2	0.2	0.0	0.0	1.1	0.2	0.0	0.0	0.20	2.50	5.60
05	0.10	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00
06	0.00	0.1	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	0.30	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00
09	0.20	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	2.80	1.5	0.9	0.3	0.2	0.0	1.6	0.8	0.6	0.1	0.00	0.70	3.30
11	5.40	4.0	1.7	0.4	0.2	0.0	6.0	2.7	0.7	0.0	1.50	3.90	8.70
12	7.70	5.2	2.2	0.6	0.3	0.0	13.7	6.7	2.5	0.1	1.60	6.70	11.10
Summary	37.2	28.1	12.5	3.1	1.0	0.0	56.5	31.6	16.6	2.2	8.5	26.6	57.1

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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	5.8	13.1	63.3	178.5	435.3	651.3	947.7	890.9	570.1	226.2	40.6	6.0
45	0.6	2.8	20.5	87.7	291.7	501.9	792.9	736.5	424.6	123.8	13.8	0.9
50	0.0	0.2	4.8	32.8	168.3	355.4	638.4	582.7	287.1	57.1	3.3	0.1
55	0.0	0.0	0.3	9.0	81.4	220.8	484.2	430.6	169.2	21.5	0.5	0.0
60	0.0	0.0	0.0	1.8	31.0	114.1	334.2	284.8	81.5	5.7	0.1	0.0
Growing Degree Units for Corn (Monthly)												
50/86	2.9	10.8	55.3	126.6	261.7	388.0	592.3	556.6	356.7	150.8	28.8	3.5
Growing Degree Units (Accumulated Monthly)												
40	6	19	82	261	696	1347	2295	3186	3756	3982	4023	4029
45	1	3	24	112	403	905	1698	2435	2859	2983	2997	2998
50	0	0	5	38	206	562	1200	1783	2070	2127	2130	2130
55	0	0	0	9	91	312	796	1226	1396	1417	1418	1418
60	0	0	0	2	33	147	481	766	847	853	853	853
Growing Degree Units for Corn (Monthly Accumulated)												
50/86	3	14	69	196	457	845	1438	1994	2351	2502	2530	2534

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