

Summary of Monthly Normals
1991-2020

Current Location: Elev: 2932 ft. Lat: 46.6008° N Lon: 107.8706° W
Station: MELSTONE, MT US USC00245596

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	34.8	14.4	24.6	6.2	5.6	5.8	0.0	0.0	0.0	0.0	0.0	0.0	942.4	1004.4	1097.4	1252.4	0.0	0.0	5.6	9.5	28.2	5.9
02	38.0	16.7	27.4	8.4	8.0	8.1	0.2	0.0	0.0	0.0	0.0	0.0	774.2	830.0	914.0	1054.1	0.0	0.0	7.9	7.9	25.1	4.4
03	48.7	24.6	36.6	7.2	5.1	6.1	2.9	1.2	0.2	0.0	0.0	0.0	571.8	632.1	724.1	878.9	0.0	0.0	17.6	3.6	23.5	1.5
04	58.6	33.3	45.9	3.6	2.7	2.9	17.1	9.9	3.7	0.2	0.0	0.0	288.6	341.4	425.3	571.7	0.0	0.0	24.7	0.6	13.5	0.0
05	67.8	42.4	55.1	3.8	2.1	2.6	103.1	74.2	41.1	11.1	1.6	0.4	100.0	133.1	193.0	318.0	0.0	0.6	29.6	0.0	3.1	0.0
06	77.6	51.2	64.4	3.6	1.9	2.5	291.2	237.9	165.2	73.3	23.3	13.1	9.3	15.9	33.3	91.3	0.4	4.1	30.0	0.0	0.0	0.0
07	87.6	57.5	72.6	5.2	3.1	4.0	544.0	482.4	391.3	248.4	129.5	92.1	0.2	0.6	2.5	14.5	3.0	16.1	31.0	0.0	0.0	0.0
08	86.8	55.5	71.1	3.5	2.3	2.7	502.5	442.1	353.4	216.7	104.3	69.5	2.1	3.6	7.9	26.1	1.7	15.4	31.0	0.0	0.0	0.0
09	75.5	46.0	60.8	4.0	2.4	2.8	212.4	169.0	113.6	48.2	15.2	8.2	40.0	56.6	91.2	175.8	0.1	4.2	29.4	0.0	1.1	0.0
10	59.9	34.8	47.3	4.1	3.0	3.4	37.1	25.4	13.2	3.4	0.7	0.3	274.1	324.4	405.3	550.5	0.0	0.2	26.2	0.9	11.1	0.1
11	45.8	24.5	35.1	5.9	4.2	4.9	1.8	0.8	0.1	0.0	0.0	0.0	597.3	656.2	745.6	895.5	0.0	0.0	14.2	4.3	22.2	1.2
12	35.7	16.2	26.0	6.6	5.8	6.1	0.0	0.0	0.0	0.0	0.0	0.0	900.3	962.3	1055.3	1210.4	0.0	0.0	5.7	9.3	28.3	4.2
Summary	59.7	34.8	47.2	5.2	3.9	4.3	1712	1443	1082	601	275	184	4500	4961	5695	7039	5.2	40.6	252.9	36.1	156.1	17.3

Empty or blank cells indicate data is missing or insufficient occurrences to compute value

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Generated on 04/29/2024

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	0.51	5.1	2.0	0.1	0.0	0.28	0.46	0.75	
02	0.44	4.5	1.9	0.1	0.0	0.22	0.36	0.55	
03	0.77	6.2	2.9	0.2	0.0	0.37	0.82	1.10	
04	1.80	8.6	4.5	1.2	0.2	1.11	1.65	2.40	
05	2.92	9.9	6.3	1.7	0.6	1.41	2.04	3.83	
06	2.77	10.9	6.8	1.7	0.4	1.72	2.70	3.90	
07	1.54	7.3	4.2	0.8	0.1	0.67	1.31	1.75	
08	1.10	5.4	3.0	0.5	0.1	0.46	0.83	1.37	
09	1.18	5.6	3.6	0.7	0.1	0.57	0.94	1.84	
10	1.32	5.9	3.2	0.7	0.2	0.74	1.32	1.85	
11	0.59	4.5	2.1	0.1	0.0	0.30	0.54	0.76	
12	0.53	4.3	2.1	0.1	0.0	0.22	0.34	0.81	
Summary	15.47	78.2	42.6	7.9	1.7	8.07	13.31	20.91	

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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	8.70	4.3	3.7	1.0	0.3	0.0	13.9	9.2	5.5	1.1	6.50	7.50	13.50
02	6.50	3.4	2.9	0.7	0.4	0.1	9.5	5.6	3.7	1.0	2.00	5.30	10.10
03	6.90	3.3	2.7	0.9	0.2	0.0	5.1	2.9	1.5	0.2	3.10	5.30	9.60
04	3.60	1.8	1.5	0.5	0.0	0.0	1.3	0.3	0.0	0.0	0.00	1.80	7.00
05	1.00	0.6	0.5	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.00	0.00	1.80
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	0.0	0.0	0.0	0.0	0.00	0.00	0.00
10	2.50	1.0	1.0	0.2	0.1	0.0	1.2	0.3	0.2	0.0	0.00	1.50	2.50
11	5.60	2.7	2.5	0.7	0.1	0.0	5.0	2.2	1.1	0.5	2.50	5.50	6.30
12	8.00	3.5	3.0	1.1	0.3	0.0	9.8	5.5	3.9	1.2	2.00	5.80	12.20
Summary	42.9	20.6	17.8	5.2	1.4	0.1	45.9	26.0	15.9	4.0	16.1	32.7	63.0

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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	14.7	25.6	93.6	219.6	472.4	732.0	1008.2	965.0	623.6	273.4	73.5	15.9
45	3.5	8.3	39.2	119.3	328.1	582.2	853.3	810.1	477.5	162.8	30.8	3.6
50	0.4	2.1	12.7	52.3	199.6	433.9	698.7	655.8	337.8	84.0	9.1	0.4
55	0.0	0.2	2.9	17.1	103.1	291.2	544.0	502.5	212.4	37.1	1.8	0.0
60	0.0	0.0	0.2	3.7	41.1	165.2	391.3	353.4	113.6	13.2	0.1	0.0
Growing Degree Units for Corn (Monthly)												
50/86	9.6	21.1	77.7	154.6	286.8	445.5	635.3	608.5	389.9	181.3	52.5	10.2

Growing Degree Units (Accumulated Monthly)												
40	15	40	134	354	826	1558	2566	3531	4155	4428	4502	4518
45	4	12	51	170	498	1081	1934	2744	3222	3384	3415	3419
50	0	2	15	68	267	701	1400	2056	2393	2477	2486	2487
55	0	0	3	20	123	414	958	1461	1673	1710	1712	1712
60	0	0	0	4	45	210	602	955	1068	1082	1082	1082
Growing Degree Units for Corn (Monthly Accumulated)												
50/86	10	31	108	263	550	995	1631	2239	2629	2810	2863	2873

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