

Summary of Monthly Normals
1991-2020

Generated on 05/20/2024

Current Location: Elev: 4100 ft. Lat: 45.8325° N Lon: 109.9511° W

Station: **BIG TIMBER, MT US USC00240780**

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	38.1	19.5	28.8	4.5	5.0	4.7	0.0	0.0	0.0	0.0	0.0	0.0	812.3	874.3	967.3	1122.3	0.0	0.0	5.4	7.7	24.8	4.4
02	40.0	19.6	29.8	6.7	6.8	6.7	0.3	0.1	0.0	0.0	0.0	0.0	705.6	761.4	845.4	985.4	0.0	0.0	7.4	6.4	23.3	3.3
03	49.3	26.0	37.7	5.8	4.8	5.2	2.4	1.1	0.3	0.0	0.0	0.0	540.4	601.1	693.3	847.9	0.0	0.0	17.7	2.7	22.8	1.4
04	56.8	32.4	44.6	3.3	2.6	2.7	12.1	7.0	2.5	0.3	0.0	0.0	324.0	378.9	464.4	612.3	0.0	0.0	22.5	0.7	15.7	0.1
05	66.6	40.3	53.4	4.1	1.9	2.7	77.3	52.9	26.6	5.4	0.6	0.1	125.4	163.0	229.7	363.5	0.0	0.2	29.2	0.0	4.2	0.0
06	75.8	47.9	61.9	3.6	1.7	2.5	223.6	174.9	111.3	39.4	8.0	3.2	18.1	29.4	55.8	133.9	0.0	2.4	29.8	0.0	0.0	0.0
07	86.2	53.5	69.8	4.2	2.4	3.2	460.6	399.4	309.7	171.3	65.2	37.4	0.4	1.3	4.6	21.1	0.7	12.1	31.0	0.0	0.0	0.0
08	84.9	51.3	68.1	3.2	1.9	2.2	409.8	350.3	263.9	133.6	43.2	21.9	3.8	6.3	13.0	37.6	0.2	9.9	31.0	0.0	0.1	0.0
09	74.1	43.4	58.8	3.5	2.2	2.5	162.2	122.6	73.8	22.7	4.3	1.9	49.8	70.2	111.4	210.2	0.0	2.0	29.4	0.0	2.1	0.0
10	59.0	34.4	46.7	4.1	3.0	3.3	29.0	18.3	8.1	1.5	0.2	0.0	286.3	337.5	420.3	568.7	0.0	0.0	24.9	1.0	12.8	0.1
11	45.9	26.0	35.9	4.9	3.9	4.3	1.8	0.7	0.1	0.0	0.0	0.0	573.3	632.2	721.6	871.5	0.0	0.0	12.9	4.2	21.1	1.3
12	37.2	19.5	28.4	4.9	5.2	5.0	0.1	0.0	0.0	0.0	0.0	0.0	825.9	887.8	980.8	1135.9	0.0	0.0	5.0	8.4	25.9	3.4
Summary	59.5	34.5	47.0	4.4	3.4	3.7	1379	1127	796	374	122	64	4265	4743	5508	6910	0.9	26.6	246.2	31.1	152.8	14.0

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	0.73	4.7	2.2	0.1	0.0	0.24	0.54	0.99	
02	0.65	4.4	2.3	0.1	0.0	0.23	0.43	0.95	
03	0.98	6.1	3.1	0.5	0.0	0.42	0.82	1.22	
04	2.18	8.6	5.7	1.2	0.2	1.41	2.01	2.87	
05	3.06	11.4	6.9	1.8	0.5	1.70	2.95	4.00	
06	2.63	10.6	6.2	1.5	0.5	1.99	2.51	3.09	
07	1.38	7.5	3.8	0.6	0.1	0.80	1.07	1.72	
08	0.99	5.4	2.8	0.5	0.1	0.41	0.74	1.25	
09	1.31	6.3	3.6	0.9	0.1	0.57	0.97	1.69	
10	1.51	7.2	3.6	0.8	0.2	0.95	1.21	1.64	
11	0.78	4.9	2.3	0.3	0.1	0.31	0.75	1.16	
12	0.73	4.4	2.0	0.3	0.1	0.22	0.50	0.93	
Summary	16.93	81.5	44.5	8.6	1.9	9.25	14.50	21.51	

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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	7.10	2.6	1.9	1.1	0.4	0.0					3.00	6.00	11.70
02	10.80	3.1	2.6	1.1	0.6	0.1					2.50	5.50	18.10
03	9.10	2.1	1.7	0.9	0.4	0.1					2.70	6.20	12.50
04	3.60	1.3	1.2	0.9	0.5	0.2					0.00	0.00	5.70
05	0.60	0.1	0.1	0.1	0.0	0.0					0.00	0.00	0.00
06	0.00	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					0.00	0.00	0.00
08	0.00	0.0	0.0	0.0	0.0	0.0					0.00	0.00	0.00
09	0.50	0.2	0.2	0.1	0.0	0.0					0.00	0.00	0.00
10	4.80	1.2	1.0	0.7	0.4	0.1					0.00	2.30	5.20
11	7.90	2.2	1.9	1.0	0.3	0.1					2.50	6.00	11.40
12	10.20	2.4	2.3	1.1	0.6	0.1					2.00	5.60	14.10
Summary	54.6	15.2	12.9	7.0	3.2	0.7	0.0	0.0	0.0	0.0	12.7	31.6	78.7

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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	24.7	30.0	94.5	186.4	422.2	655.7	924.7	870.7	564.1	258.5	81.2	21.8
45	5.4	9.9	38.7	94.3	281.3	506.3	770.0	716.1	418.8	150.2	34.7	4.7
50	0.7	2.6	11.7	37.6	162.7	360.1	615.0	561.8	281.2	73.7	10.1	0.6
55	0.0	0.3	2.4	12.1	77.3	223.6	460.6	409.8	162.2	29.0	1.8	0.1
60	0.0	0.0	0.3	2.5	26.6	111.3	309.7	263.9	73.8	8.1	0.1	0.0
Growing Degree Units for Corn (Monthly)												
50/86	8.7	18.4	72.1	133.1	265.8	400.1	579.5	549.0	368.2	171.2	48.3	8.7

Growing Degree Units (Accumulated Monthly)												
40	25	55	149	336	758	1414	2338	3209	3773	4031	4113	4134
45	5	15	54	148	430	936	1706	2422	2841	2991	3026	3030
50	1	3	15	53	215	575	1190	1752	2033	2107	2117	2118
55	0	0	3	15	92	316	776	1186	1348	1377	1379	1379
60	0	0	0	3	29	141	450	714	788	796	796	796
Growing Degree Units for Corn (Monthly Accumulated)												
50/86	9	27	99	232	498	898	1478	2027	2395	2566	2614	2623

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