

Summary of Monthly Normals
1991-2020

Generated on 05/23/2024

Current Location: Elev: 2800 ft. Lat: 45.8525° N Lon: 105.0350° W
Station: POWDERVILLE 8 NNE, MT US USC00246691

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	10.1	21.3	6.2	6.0	5.9	0.0	0.0	0.0	0.0	0.0	0.0	1046.1	1108.1	1201.1	1356.2	0.0	0.0	2.1	12.7	30.4	8.8
02	36.4	13.7	25.1	8.2	8.5	8.2	0.0	0.0	0.0	0.0	0.0	0.0	838.4	894.4	978.4	1118.5	0.0	0.0	5.1	9.7	26.8	5.8
03	48.5	23.1	35.8	7.2	5.1	6.0	1.9	0.8	0.1	0.0	0.0	0.0	597.2	658.1	750.4	905.3	0.0	0.0	15.2	4.1	26.3	2.5
04	59.4	33.0	46.2	3.9	3.0	3.2	21.3	12.9	5.6	0.9	0.0	0.0	285.3	337.0	419.6	564.9	0.0	0.0	23.7	0.8	15.1	0.2
05	69.5	43.1	56.3	4.1	2.1	2.8	127.1	94.7	56.6	17.2	3.4	1.5	86.9	116.4	171.4	287.0	0.0	0.6	29.4	0.0	4.4	0.0
06	79.7	52.4	66.0	3.8	2.2	2.8	338.2	283.7	208.1	104.6	40.1	24.3	6.7	12.2	26.7	73.1	0.4	4.4	29.9	0.0	0.1	0.0
07	90.0	58.9	74.4	4.9	2.9	3.7	603.0	541.3	449.3	301.3	170.9	127.5	0.2	0.5	1.5	8.6	3.5	17.5	31.0	0.0	0.0	0.0
08	89.1	56.6	72.9	3.7	2.6	2.9	555.7	494.9	405.0	263.5	141.3	101.2	2.5	3.7	6.8	20.3	2.1	16.7	31.0	0.0	0.3	0.0
09	77.6	46.0	61.8	3.7	3.0	3.1	242.4	197.8	139.2	67.6	24.7	14.6	38.5	53.9	85.3	163.7	0.3	5.0	29.4	0.0	2.7	0.0
10	60.6	33.8	47.2	4.6	3.0	3.5	33.5	22.5	11.8	3.5	0.6	0.3	275.3	326.3	408.5	555.3	0.0	0.2	25.1	0.9	14.9	0.2
11	45.7	21.4	33.5	6.5	4.3	5.1	0.4	0.1	0.0	0.0	0.0	0.0	643.8	703.5	793.5	943.5	0.0	0.0	12.4	4.9	27.0	1.8
12	34.8	12.1	23.5	6.6	5.4	5.9	0.0	0.0	0.0	0.0	0.0	0.0	977.8	1039.8	1132.8	1287.9	0.0	0.0	3.2	11.2	30.6	6.5
Summary	60.3	33.7	47.0	5.3	4.0	4.4	1924	1649	1276	759	381	269	4799	5254	5976	7284	6.3	44.4	237.5	44.3	178.6	25.8

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	0.43	5.9	1.4	0.1	0.0	0.21	0.34	0.52	
02	0.51	6.1	1.7	0.1	0.0	0.29	0.41	0.67	
03	0.74	6.3	2.4	0.2	0.0	0.32	0.50	0.96	
04	1.64	8.5	4.5	1.0	0.2	1.00	1.29	2.35	
05	2.84	10.1	6.1	1.7	0.6	1.44	2.07	4.17	
06	2.68	9.9	5.9	1.9	0.4	1.78	2.12	3.24	
07	1.72	7.1	3.9	1.0	0.3	0.80	1.34	2.31	
08	1.23	5.4	2.9	0.7	0.2	0.40	1.08	1.96	
09	1.25	5.5	3.3	0.7	0.2	0.54	1.11	1.72	
10	1.16	6.7	3.2	0.5	0.1	0.61	0.94	1.44	
11	0.47	5.2	1.7	0.0	0.0	0.19	0.39	0.73	
12	0.35	4.7	1.3	0.0	0.0	0.12	0.24	0.51	
Summary	15.02	81.4	38.3	7.9	2.0	7.70	11.83	20.58	

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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	5.40	4.5	2.4	0.3	0.1	0.0	20.7	13.7	8.6	1.8	2.60	5.00	7.40
02	5.80	4.2	2.4	0.3	0.1	0.1	14.7	9.6	5.1	2.0	2.50	4.80	6.90
03	5.10	3.0	2.1	0.4	0.1	0.0	8.5	5.6	4.0	2.4	1.00	2.80	9.20
04	2.60	1.5	1.0	0.4	0.1	0.0	1.9	0.9	0.3	0.0	0.00	1.20	3.60
05	1.10	0.2	0.2	0.1	0.1	0.0	0.2	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	0.0	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	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00
10	1.70	0.8	0.7	0.1	0.1	0.0	1.2	0.3	0.1	0.0	0.00	0.00	2.60
11	3.30	2.4	1.3	0.3	0.1	0.0	5.6	2.4	1.0	0.0	1.30	2.30	4.60
12	4.90	3.6	2.0	0.3	0.1	0.0	13.8	5.8	2.9	0.9	2.00	3.90	5.60
Summary	29.9	20.2	12.1	2.2	0.8	0.1	66.6	38.4	22.0	7.1	9.4	20.0	39.9

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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	3.2	12.7	82.4	231.4	508.3	781.5	1067.5	1018.0	654.8	270.3	52.0	4.9
45	0.2	3.4	34.1	129.8	362.2	631.6	912.5	863.3	508.5	159.2	18.7	0.7
50	0.0	0.3	10.2	60.1	230.8	482.6	757.7	709.1	369.0	79.5	4.4	0.0
55	0.0	0.0	1.9	21.3	127.1	338.2	603.0	555.7	242.4	33.5	0.4	0.0
60	0.0	0.0	0.1	5.6	56.6	208.1	449.3	405.0	139.2	11.8	0.0	0.0
Growing Degree Units for Corn (Monthly)												
50/86	4.2	15.2	78.0	168.6	315.3	488.2	672.8	641.4	422.7	192.7	53.0	6.8

Growing Degree Units (Accumulated Monthly)												
40	3	16	98	330	838	1620	2687	3705	4360	4630	4682	4687
45	0	4	38	168	530	1161	2074	2937	3446	3605	3624	3624
50	0	0	10	71	301	784	1542	2251	2620	2699	2704	2704
55	0	0	2	23	150	488	1092	1647	1890	1923	1924	1924
60	0	0	0	6	62	270	720	1125	1264	1276	1276	1276
Growing Degree Units for Corn (Monthly Accumulated)												
50/86	4	19	97	266	581	1070	1742	2384	2806	2999	3052	3059

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