

Summary of Monthly Normals
1991-2020

Generated on 05/27/2024

Current Location: Elev: 3914 ft. Lat: 45.3242° N Lon: 105.9136° W
Station: SONNETTE 7 SW, MT US USC00247740

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	36.8	9.5	23.2	4.2	4.6	4.3	0.0	0.0	0.0	0.0	0.0	0.0	987.4	1049.4	1142.4	1297.4	0.0	0.0	3.0	10.7	30.8	7.9
02	38.7	11.3	25.0	6.7	7.2	6.9	0.0	0.0	0.0	0.0	0.0	0.0	839.6	895.7	979.8	1119.8	0.0	0.0	5.2	9.2	27.5	6.3
03	48.8	20.6	34.7	5.5	4.3	4.8	1.1	0.5	0.0	0.0	0.0	0.0	630.6	691.9	784.4	939.4	0.0	0.0	14.4	4.3	28.1	2.2
04	57.3	28.8	43.0	3.2	2.8	2.7	9.8	5.4	1.6	0.1	0.0	0.0	368.3	423.8	510.1	658.6	0.0	0.0	20.9	1.3	21.0	0.3
05	66.6	38.1	52.3	4.0	1.9	2.6	67.2	45.9	23.0	5.1	0.7	0.3	149.5	190.1	260.2	397.3	0.0	0.2	28.0	0.1	8.7	0.0
06	76.5	46.8	61.7	3.9	2.1	2.8	221.6	175.0	114.7	45.0	12.1	6.4	22.1	35.5	65.2	145.6	0.1	2.0	29.8	0.0	0.5	0.0
07	86.5	53.0	69.7	4.7	2.8	3.6	457.6	396.8	308.6	175.2	73.4	45.9	0.6	1.9	6.5	28.1	0.8	9.8	31.0	0.0	0.0	0.0
08	85.9	51.1	68.5	3.4	2.6	2.8	422.5	363.9	279.2	154.4	60.8	36.1	4.3	7.6	15.9	46.0	0.4	9.2	31.0	0.0	0.1	0.0
09	75.3	41.7	58.5	3.7	2.6	2.8	171.0	134.2	87.9	34.8	9.4	4.7	66.2	89.3	132.9	229.9	0.0	2.7	28.9	0.0	3.9	0.0
10	59.6	30.0	44.8	4.9	3.3	3.9	23.2	15.3	7.2	1.6	0.1	0.0	339.3	393.4	478.4	627.7	0.0	0.1	23.3	1.3	18.9	0.2
11	46.5	18.4	32.5	6.2	4.0	4.9	0.3	0.0	0.0	0.0	0.0	0.0	676.7	736.5	826.5	976.5	0.0	0.0	12.1	5.5	28.3	2.1
12	36.8	10.4	23.6	5.3	4.8	5.0	0.0	0.0	0.0	0.0	0.0	0.0	973.0	1035.1	1128.2	1283.2	0.0	0.0	3.3	11.4	30.8	6.4
Summary	59.6	30.0	44.8	4.6	3.6	3.9	1374	1137	822	416	156	93	5058	5550	6330	7750	1.3	24.0	230.9	43.8	198.6	25.4

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	0.50	3.8	1.8	0.2	0.0	0.15	0.51	0.75	
02	0.70	5.6	2.6	0.2	0.0	0.33	0.54	1.00	
03	0.91	4.9	2.7	0.4	0.1	0.45	0.68	1.23	
04	1.85	7.3	4.9	1.2	0.3	0.95	1.68	2.45	
05	2.95	8.7	5.9	1.7	0.6	1.27	2.31	4.06	
06	2.69	7.9	5.6	1.9	0.5	1.94	2.36	3.67	
07	1.67	6.5	4.1	1.0	0.2	0.67	1.35	2.20	
08	1.10	5.1	3.0	0.6	0.1	0.55	0.96	1.46	
09	1.09	4.6	2.7	0.6	0.2	0.33	0.89	1.34	
10	1.38	5.8	3.5	0.7	0.2	0.78	0.99	2.11	
11	0.56	3.8	2.0	0.3	0.0	0.17	0.50	0.96	
12	0.51	3.6	1.7	0.2	0.0	0.12	0.54	0.71	
Summary	15.91	67.6	40.5	9.0	2.2	7.71	13.31	21.94	

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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	3.90	1.9	0.8	0.2	0.0	0.0	8.8	7.2	5.6	1.7	0.00	0.90	7.90
02	6.60	2.4	1.4	0.4	0.0	0.0	7.0	5.7	3.9	1.9	0.00	0.20	11.10
03	5.00	1.3	0.9	0.3	0.2	0.0	3.5	2.9	2.4	1.9	0.00	3.20	8.90
04	3.40	1.0	0.6	0.3	0.2	0.0	0.9	0.5	0.2	0.1	0.00	0.00	1.40
05	0.20	0.1	0.1	0.0	0.0	0.0	0.0	0.0	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	1.30	0.8	0.4	0.1	0.0	0.0	0.9	0.3	0.1	0.0	0.00	0.00	0.00
11	3.10	1.3	0.7	0.2	0.1	0.0	2.0	0.7	0.4	0.0	0.00	0.00	3.10
12	5.60	2.0	1.3	0.5	0.2	0.0	6.8	5.3	3.7	0.6	0.00	0.00	10.60
Summary	29.1	10.8	6.2	2.0	0.7	0.0	29.9	22.6	16.3	6.2	0.0	4.3	43.0

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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	4.7	12.6	63.7	161.4	390.3	649.6	921.6	883.0	557.0	216.8	45.5	4.5
45	0.6	3.5	23.6	80.7	254.1	500.2	767.0	728.5	413.5	122.2	16.7	0.7
50	0.0	0.5	6.2	32.3	144.0	354.5	611.9	574.2	281.7	58.6	4.3	0.0
55	0.0	0.0	1.1	9.8	67.2	221.6	457.6	422.5	171.0	23.2	0.3	0.0
60	0.0	0.0	0.0	1.6	23.0	114.7	308.6	279.2	87.9	7.2	0.0	0.0
Growing Degree Units for Corn (Monthly)												
50/86	7.9	18.5	74.8	143.1	264.9	407.7	576.7	554.3	376.3	179.9	57.0	9.5

Growing Degree Units (Accumulated Monthly)												
40	5	17	81	242	633	1282	2204	3087	3644	3861	3906	3911
45	1	4	28	108	362	863	1630	2358	2772	2894	2911	2911
50	0	0	7	39	183	538	1149	1724	2005	2064	2068	2068
55	0	0	1	11	78	300	757	1180	1351	1374	1374	1374
60	0	0	0	2	25	139	448	727	815	822	822	822
Growing Degree Units for Corn (Monthly Accumulated)												
50/86	8	26	101	244	509	917	1494	2048	2424	2604	2661	2671

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

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