

Summary of Monthly Normals
1991-2020

Generated on 06/03/2024

Current Location: Elev: 1955 ft. Lat: 45.3036° N Lon: 97.0625° W

Station: SUMMIT 1 W, SD US USC00398116

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	20.7	2.1	11.4	5.5	6.1	5.7	0.0	0.0	0.0	0.0	0.0	0.0	1351.2	1413.2	1506.4	1661.4	0.0	0.0	0.1	25.3	31.0	14.7
02	25.7	6.1	15.9	7.5	7.7	7.5	0.0	0.0	0.0	0.0	0.0	0.0	1094.6	1150.6	1234.7	1374.7	0.0	0.0	0.8	19.6	27.5	10.4
03	38.7	18.4	28.5	7.2	5.4	6.1	1.7	1.0	0.5	0.1	0.0	0.0	821.8	883.0	975.5	1130.0	0.0	0.0	6.7	10.8	27.2	3.2
04	54.6	30.3	42.5	5.9	3.6	4.6	15.6	9.6	4.1	0.9	0.0	0.0	392.2	446.2	530.6	677.4	0.0	0.0	19.4	2.0	17.7	0.1
05	68.2	42.8	55.5	3.3	3.0	3.0	121.4	90.9	55.3	20.4	4.8	2.2	106.1	137.6	194.9	314.9	0.0	0.2	29.3	0.0	4.2	0.0
06	77.1	53.5	65.3	2.9	2.6	2.6	316.5	262.4	187.3	87.3	29.0	16.6	7.6	13.5	28.4	78.4	0.0	0.8	30.0	0.0	0.1	0.0
07	81.9	58.1	70.0	3.7	2.9	3.2	465.1	404.0	314.8	177.8	74.9	47.7	0.3	1.1	4.9	22.9	0.1	3.2	31.0	0.0	0.0	0.0
08	80.4	56.3	68.3	2.8	2.3	2.4	415.1	354.8	267.8	140.5	52.2	31.2	1.4	3.1	9.0	36.7	0.0	2.4	31.0	0.0	0.0	0.0
09	73.0	47.9	60.5	3.3	3.1	2.9	209.4	168.3	115.0	51.1	16.0	8.3	46.2	65.0	101.6	187.7	0.0	0.6	29.7	0.0	1.6	0.0
10	57.5	34.4	45.9	4.8	3.0	3.6	35.8	25.0	13.0	3.5	0.5	0.2	316.4	367.5	448.5	594.1	0.0	0.0	22.4	0.9	13.2	0.0
11	39.8	20.7	30.3	7.2	5.0	5.9	1.3	0.6	0.1	0.0	0.0	0.0	743.8	803.0	892.6	1042.5	0.0	0.0	6.8	10.1	26.4	1.6
12	25.7	8.6	17.2	6.4	5.9	6.0	0.0	0.0	0.0	0.0	0.0	0.0	1173.1	1235.1	1328.2	1483.2	0.0	0.0	0.4	22.0	30.9	8.5
Summary	53.6	31.6	42.6	5.0	4.2	4.5	1582	1317	958	482	177	106	6055	6519	7255	8604	0.1	7.2	207.6	90.7	179.8	38.5

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	0.65	6.3	2.2	0.0	0.0	0.35	0.61	0.87	
02	0.69	5.8	2.1	0.2	0.0	0.29	0.48	1.02	
03	1.03	5.9	2.7	0.5	0.0	0.48	0.78	1.48	
04	2.34	7.5	4.6	1.4	0.2	1.35	2.14	2.99	
05	3.16	10.7	7.1	2.2	0.6	2.12	3.18	4.07	
06	3.95	11.2	7.6	2.7	0.9	2.94	3.34	4.79	
07	4.07	9.1	6.4	2.6	1.1	2.39	3.71	5.11	
08	2.97	8.5	5.2	2.0	0.8	1.47	2.62	4.26	
09	2.77	8.2	5.4	1.8	0.9	1.43	2.48	3.37	
10	2.51	7.8	4.8	1.7	0.7	0.83	2.24	3.35	
11	0.90	5.1	2.4	0.5	0.1	0.29	0.70	1.23	
12	0.66	6.7	2.2	0.1	0.0	0.31	0.55	0.90	
Summary	25.70	92.8	52.7	15.7	5.3	14.25	22.83	33.44	

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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	10.20	5.2	4.1	1.1	0.2	0.1	27.6	20.2	15.2	10.3	5.60	8.50	14.00
02	12.40	4.8	3.6	1.4	0.5	0.1	23.8	18.8	15.1	10.0	6.20	10.50	17.90
03	8.80	3.2	2.6	1.3	0.5	0.1	17.7	14.4	11.2	8.0	3.00	7.00	12.00
04	7.80	2.2	2.0	1.1	0.6	0.2	5.5	3.7	2.4	0.6	0.00	5.50	11.10
05	0.10	0.1	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	0.0	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	2.00	0.8	0.7	0.4	0.1	0.0	1.2	0.6	0.4	0.0	0.00	0.00	2.00
11	5.40	2.8	2.3	0.9	0.4	0.0	8.2	5.2	3.4	1.2	1.20	4.00	7.90
12	11.90	5.2	3.9	1.3	0.5	0.0	22.9	17.4	11.2	5.4	4.90	8.00	17.00
Summary	58.6	24.3	19.2	7.5	2.8	0.5	106.9	80.3	58.9	35.5	20.9	43.5	81.9

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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	0.1	2.5	34.9	171.4	484.4	758.8	929.8	878.7	614.1	245.3	39.2	0.7
45	0.0	0.5	15.1	94.6	343.8	609.0	774.8	723.7	467.8	147.7	16.3	0.1
50	0.0	0.1	5.8	43.6	219.2	460.4	619.8	568.9	329.0	78.5	5.8	0.0
55	0.0	0.0	1.7	15.6	121.4	316.5	465.1	415.1	209.4	35.8	1.3	0.0
60	0.0	0.0	0.5	4.1	55.3	187.3	314.8	267.8	115.0	13.0	0.1	0.0
Growing Degree Units for Corn (Monthly)												
50/86	0.2	2.2	27.8	123.9	301.3	476.8	611.7	570.5	384.5	156.3	29.1	0.8

Growing Degree Units (Accumulated Monthly)												
40	0	3	38	209	693	1452	2382	3261	3875	4120	4159	4160
45	0	0	16	110	454	1063	1838	2562	3029	3177	3193	3193
50	0	0	6	50	269	729	1349	1918	2247	2325	2331	2331
55	0	0	2	17	139	455	920	1335	1545	1581	1582	1582
60	0	0	0	5	60	247	562	830	945	958	958	958
Growing Degree Units for Corn (Monthly Accumulated)												
50/86	0	2	30	154	455	932	1544	2114	2499	2655	2684	2685

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