U.S. Department of Commerce
National Oceanic & Atmospheric Administration
National Environmental Satellite, Data, and Information Service

Summary of Monthly Normals
1991-2020

Generated on 11/06/2026

National Centers for Environmental Information
151 Patton Avenue
Asheville, North Carolina 28801

Current Location: Elev: 3379 ft. Lat: 44.0728° N Lon: 103.2108° W

Station: **RAPID CITY WFO, SD US USC00396948**

Temperature (°F)

	Mean						Cooling Degree Days Base (above)						Heating Degree Days Base (above)				Mean Number of Days					
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	36.5	16.2	26.4	5.5	4.9	5.1	0.5	0.2	0.0	0.0	0.0	0.0	888.6	950.3	1043.1	1198.1	0.0	0.0	6.6	10.6	27.0	5.2
02	38.3	17.5	27.9	8.1	6.9	7.4	1.2	0.6	0.1	0.0	0.0	0.0	759.8	815.1	898.7	1038.7	0.0	0.0	6.2	9.3	24.7	3.8
03	47.4	25.6	36.5	6.7	4.8	5.7	7.7	4.7	1.9	0.3	0.0	0.0	581.4	640.4	730.5	883.9	0.0	0.0	14.1	5.9	23.0	1.2
04	55.0	34.0	44.5	3.7	3.2	3.3	20.5	12.8	5.8	0.9	0.2	0.1	335.4	387.7	470.7	615.9	0.0	0.0	20.6	1.6	11.8	0.0
05	65.3	44.6	54.9	4.0	2.5	3.0	111.6	83.2	49.3	15.8	2.7	1.0	113.2	146.8	205.9	327.3	0.0	0.3	27.6	0.0	2.2	0.0
06	76.2	54.6	65.4	4.4	2.7	3.4	323.9	270.3	195.3	95.6	36.0	22.3	12.0	18.4	33.4	83.7	0.4	2.8	29.8	0.0	0.1	0.0
07	84.4	61.6	73.0	4.8	2.4	3.5	557.8	496.0	404.2	257.4	131.1	92.1	0.1	0.2	1.5	9.5	1.4	10.0	31.0	0.0	0.0	0.0
08	83.4	59.9	71.6	2.9	2.1	2.3	516.6	455.5	365.6	224.4	107.8	73.8	0.6	1.5	4.6	18.4	0.4	7.2	31.0	0.0	0.0	0.0
09	74.0	50.8	62.4	3.3	2.3	2.7	262.1	217.1	156.9	79.2	29.8	17.9	40.3	55.3	85.1	157.4	0.1	3.0	29.1	0.0	0.4	0.0
10	58.8	37.9	48.3	4.9	3.6	4.1	53.9	37.9	20.2	5.9	1.4	0.7	260.0	306.0	381.2	521.9	0.0	0.2	23.8	1.1	8.0	0.0
11	47.0	26.6	36.8	5.7	4.4	4.9	7.5	4.0	1.3	0.0	0.0	0.0	553.5	610.0	697.3	846.1	0.0	0.0	14.0	5.3	19.9	0.7
12	37.6	18.6	28.1	5.4	5.5	5.4	0.2	0.1	0.0	0.0	0.0	0.0	833.8	895.6	988.6	1143.7	0.0	0.0	6.5	10.2	27.1	3.6
Summary	58.7	37.3	48.0	4.9	3.8	4.2	1864	1582	1201	680	309	208	4379	4827	5541	6845	2.3	23.5	240.3	44.0	144.2	14.5

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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	0.31	5.9	0.8	0.0	0.0	0.18	0.32	0.38
02	0.53	7.4	1.7	0.1	0.0	0.28	0.47	0.70
03	0.94	7.6	2.9	0.4	0.0	0.59	0.87	1.33
04	2.26	10.6	5.5	1.2	0.3	1.65	2.09	2.94
05	4.12	14.3	7.7	2.4	1.1	2.13	3.37	5.58
06	3.33	13.0	7.4	2.1	0.5	1.56	3.13	4.68
07	2.62	10.7	5.9	1.4	0.6	1.67	2.27	3.35
08	2.17	9.2	4.4	1.4	0.5	1.35	1.78	2.77
09	1.40	6.9	3.6	0.8	0.2	0.71	1.26	1.97
10	1.49	7.7	3.2	0.7	0.2	0.59	1.04	1.38
11	0.48	4.5	1.2	0.2	0.0	0.21	0.34	0.56
12	0.37	5.5	1.3	0.0	0.0	0.15	0.28	0.56
Summary	20.02	103.3	45.6	10.7	3.4	11.07	17.22	26.20

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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	5.30	6.5	2.1	0.2	0.0	0.0	9.2	3.0	0.1	0.0	3.70	5.20	7.60
02	9.10	7.5	2.6	0.8	0.3	0.1	9.6	4.0	1.7	0.1	4.60	7.00	11.60
03	10.40	5.7	3.0	1.0	0.5	0.1	6.8	4.1	2.2	0.3	2.80	8.20	14.40
04	10.00	3.7	2.4	1.1	0.7	0.2	3.6	2.2	1.0	0.2	2.20	6.60	16.70
05	2.20	0.8	0.5	0.2	0.2	0.0	0.4	0.2	0.2	0.0	0.00	0.00	1.20
06	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
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	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00
10	3.40	1.9	1.2	0.2	0.0	0.0	1.8	0.7	0.2	0.0	0.00	0.40	5.60
11	6.50	4.0	1.8	0.7	0.4	0.1	5.2	2.0	1.1	0.1	1.30	4.50	7.90
12	6.60	6.0	2.1	0.4	0.2	0.0	9.7	3.8	1.0	0.0	2.30	5.60	9.30
Summary	53.7	36.3	15.7	4.6	2.3	0.5	46.3	20.0	7.5	0.7	16.9	37.5	74.3

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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	24.6	33.3	106.6	207.3	468.9	761.9	1022.6	980.9	673.2	305.4	105.8	29.5
45	7.6	14.5	52.8	115.1	328.0	612.6	867.7	825.9	527.8	194.9	53.9	9.6
50	2.0	4.9	21.8	54.8	206.6	465.1	712.7	671.0	388.7	111.3	23.0	2.1
55	0.5	1.2	7.7	20.5	111.6	323.9	557.8	516.6	262.1	53.9	7.5	0.2
60	0.0	0.1	1.9	5.8	49.3	195.3	404.2	365.6	156.9	20.2	1.3	0.0
Growing Degree Units for Corn (Monthly)												
50/86	17.7	26.2	78.7	126.9	260.1	463.3	674.8	640.2	406.8	175.6	69.1	20.2

Growing Degree Units (Accumulated Monthly)

40	25	58	164	372	841	1603	2625	3606	4279	4585	4690	4720
45	8	22	75	190	518	1131	1998	2824	3352	3547	3601	3610
50	2	7	29	84	290	755	1468	2139	2528	2639	2662	2664
55	0	2	9	30	142	465	1023	1540	1802	1856	1863	1864
60	0	0	2	8	57	252	657	1022	1179	1199	1201	1201
Growing Degree Units for Corn (Monthly Accumulated)												
50/86	18	44	123	250	510	973	1648	2288	2695	2870	2939	2960

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

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