

Summary of Monthly Normals
1991-2020

Current Location: Elev: 3160 ft. Lat: 44.0433° N Lon: 103.0536° W
Station: **RAPID CITY RGNL AP, SD US USW00024090**
Generated on 06/03/2024

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	36.0	12.7	24.3	5.9	3.8	4.7	0.0	0.0	0.0	0.0	0.0	0.0	950.2	1012.2	1105.2	1260.2	0.0	0.0	6.5	11.2	30.3	5.9
02	38.1	14.0	26.1	8.4	6.7	7.4	0.1	0.0	0.0	0.0	0.0	0.0	810.5	866.4	950.4	1090.5	0.0	0.0	7.1	9.3	26.7	4.7
03	48.2	22.6	35.4	6.9	4.1	5.4	3.3	1.7	0.4	0.0	0.0	0.0	611.1	671.4	763.2	917.7	0.0	0.0	15.5	4.7	25.9	1.5
04	56.6	31.2	43.9	3.9	3.0	3.3	16.5	10.1	4.2	0.7	0.1	0.0	349.4	403.1	487.1	633.7	0.0	0.0	21.6	1.3	16.4	0.0
05	66.5	41.7	54.1	4.0	2.1	2.8	96.8	70.2	39.6	10.9	1.4	0.5	124.8	160.1	222.5	348.8	0.0	0.6	28.8	0.0	4.1	0.0
06	77.6	51.6	64.6	4.7	2.6	3.4	299.2	246.2	174.0	80.9	28.1	17.3	11.2	18.3	36.0	93.0	0.4	3.5	29.8	0.0	0.0	0.0
07	86.4	58.5	72.4	5.1	2.6	3.7	540.8	479.0	387.6	243.9	124.2	87.7	0.1	0.4	1.9	13.2	2.3	11.8	31.0	0.0	0.0	0.0
08	85.4	56.2	70.8	3.3	2.4	2.6	491.6	431.3	342.6	205.0	94.7	63.2	1.9	3.6	8.0	25.3	1.7	11.4	31.0	0.0	0.0	0.0
09	76.1	46.4	61.3	3.3	2.6	2.7	230.9	188.2	132.1	62.2	21.4	12.5	43.6	60.8	94.7	174.8	0.4	4.4	29.4	0.0	1.2	0.0
10	60.4	33.7	47.1	5.1	3.4	4.0	39.6	26.9	13.8	3.3	0.4	0.1	285.9	335.3	415.2	559.7	0.0	0.4	24.8	1.0	13.2	0.1
11	47.3	21.9	34.6	6.2	3.5	4.7	3.0	1.5	0.4	0.0	0.0	0.0	615.0	673.4	762.3	912.0	0.0	0.0	14.2	5.1	26.3	1.2
12	37.2	13.9	25.6	6.1	5.0	5.4	0.0	0.0	0.0	0.0	0.0	0.0	912.7	974.7	1067.7	1222.7	0.0	0.0	6.6	10.3	30.3	4.4
Summary	59.6	33.7	46.7	5.2	3.5	4.2	1722	1455	1095	607	270	181	4716	5180	5914	7252	4.8	32.1	246.3	42.9	174.4	17.8

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	0.31	5.7	0.9	0.0	0.0	0.19	0.26	0.37	
02	0.50	6.6	1.8	0.1	0.0	0.19	0.43	0.77	
03	0.91	7.0	2.4	0.3	0.0	0.55	0.88	1.18	
04	2.08	10.5	5.1	1.0	0.3	1.40	1.98	2.89	
05	3.45	12.6	6.6	2.2	0.8	1.75	2.51	5.02	
06	2.87	12.5	6.8	1.5	0.5	1.33	2.31	3.77	
07	2.28	9.8	4.9	1.5	0.3	1.15	1.96	2.94	
08	1.59	7.9	3.5	1.0	0.2	0.77	1.42	2.01	
09	1.22	6.6	2.9	0.5	0.1	0.76	1.01	1.54	
10	1.41	7.1	3.2	0.7	0.2	0.55	0.94	1.45	
11	0.47	5.1	1.4	0.0	0.0	0.18	0.43	0.62	
12	0.35	5.0	1.3	0.1	0.0	0.12	0.28	0.55	
Summary	17.44	96.4	40.8	8.9	2.4	8.94	14.41	23.11	

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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	6.1	1.9	0.3	0.1	0.0	10.6	4.7	1.7	0.5	2.50	4.30	7.30
02	7.70	7.1	2.6	0.6	0.2	0.0	10.1	4.8	2.1	0.3	4.70	6.40	8.20
03	8.40	4.1	2.2	1.0	0.6	0.1	6.0	3.6	1.9	0.4	2.30	5.80	13.20
04	10.10	4.3	2.7	1.1	0.5	0.2	4.1	2.2	1.2	0.3	3.90	6.30	12.50
05	1.50	0.4	0.3	0.2	0.1	0.0	0.3	0.3	0.2	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	0.10	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	3.00	1.7	0.9	0.3	0.1	0.0	1.4	0.5	0.2	0.0	0.00	0.00	3.30
11	5.70	3.6	1.7	0.5	0.3	0.0	4.3	2.0	1.0	0.0	2.00	4.20	7.20
12	6.70	5.4	2.5	0.5	0.2	0.0	11.6	4.1	0.9	0.0	3.20	5.40	10.30
Summary	48.5	32.8	14.8	4.5	2.1	0.3	48.4	22.2	9.2	1.5	18.6	32.4	62.0

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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	11.6	22.6	85.7	185.8	442.6	737.9	1005.5	954.5	638.5	271.8	71.6	12.3
45	2.7	8.2	38.1	98.6	302.9	588.4	850.5	799.5	493.1	166.0	32.0	2.3
50	0.3	2.1	13.4	45.1	184.9	440.5	695.7	645.0	354.7	88.8	11.4	0.2
55	0.0	0.1	3.3	16.5	96.8	299.2	540.8	491.6	230.9	39.6	3.0	0.0
60	0.0	0.0	0.4	4.2	39.6	174.0	387.6	342.6	132.1	13.8	0.4	0.0
Growing Degree Units for Corn (Monthly)												
50/86	17.0	28.4	85.6	142.1	267.9	450.7	641.5	605.4	400.5	191.9	70.8	18.9

Growing Degree Units (Accumulated Monthly)												
40	12	34	120	306	748	1486	2492	3446	4085	4356	4428	4440
45	3	11	49	148	450	1039	1889	2689	3182	3348	3380	3382
50	0	2	16	61	246	686	1382	2027	2382	2470	2482	2482
55	0	0	3	20	117	416	957	1448	1679	1719	1722	1722
60	0	0	0	5	44	218	606	948	1080	1094	1095	1095
Growing Degree Units for Corn (Monthly Accumulated)												
50/86	17	45	131	273	541	992	1633	2239	2639	2831	2902	2921

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