

Summary of Monthly Normals
1991-2020

Generated on 06/03/2024

Current Location: Elev: 1742 ft. Lat: 44.3814° N Lon: 100.2856° W

Station: PIERRE RGNL AP, SD US USW00024025

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	29.0	9.3	19.1	5.8	5.3	5.4	0.0	0.0	0.0	0.0	0.0	0.0	1111.1	1173.1	1266.2	1421.2	0.0	0.0	2.0	16.6	30.6	8.3
02	33.7	12.6	23.2	8.5	7.8	8.0	0.1	0.1	0.0	0.0	0.0	0.0	891.7	947.6	1031.6	1171.6	0.0	0.0	4.5	12.7	26.7	5.9
03	45.7	22.9	34.3	7.4	4.6	5.8	3.8	2.1	0.8	0.2	0.0	0.0	645.6	705.9	797.6	951.9	0.0	0.0	13.3	5.8	25.4	1.6
04	58.5	33.3	45.9	4.2	3.4	3.6	27.4	18.2	8.8	1.9	0.4	0.2	300.5	351.2	431.8	575.0	0.0	0.3	22.5	0.9	13.3	0.0
05	69.5	44.9	57.2	3.9	2.4	2.8	148.0	113.7	71.9	27.2	6.8	3.5	79.9	107.6	158.8	269.0	0.0	1.0	29.7	0.0	2.3	0.0
06	80.0	55.6	67.8	3.6	2.5	2.8	387.7	330.8	249.5	134.2	56.0	36.1	3.8	6.9	15.5	50.3	0.5	4.0	30.0	0.0	0.0	0.0
07	88.3	61.6	74.9	4.4	2.7	3.4	618.2	556.2	463.8	314.0	179.2	134.5	0.0	0.0	0.6	5.7	3.1	14.4	31.0	0.0	0.0	0.0
08	86.6	59.4	73.0	3.6	2.2	2.6	558.5	497.2	406.5	262.4	139.4	100.4	0.6	1.3	3.6	14.6	1.9	12.2	31.0	0.0	0.0	0.0
09	77.5	49.7	63.6	3.6	2.8	2.9	283.6	236.1	172.8	91.3	40.4	27.5	25.8	38.3	65.0	133.5	1.1	5.2	29.9	0.0	0.6	0.0
10	60.7	36.2	48.5	5.0	3.1	3.8	50.7	35.8	19.9	5.8	1.3	0.6	253.7	300.8	377.9	518.8	0.0	0.6	24.9	0.5	9.9	0.0
11	44.9	23.2	34.1	6.6	3.9	5.0	2.1	0.9	0.2	0.0	0.0	0.0	630.5	689.4	778.7	928.5	0.0	0.0	12.1	5.8	25.0	0.5
12	32.4	13.2	22.8	6.5	5.3	5.7	0.0	0.0	0.0	0.0	0.0	0.0	997.9	1059.9	1153.0	1308.0	0.0	0.0	3.3	14.2	30.6	4.6
Summary	58.9	35.2	47.0	5.3	3.8	4.3	2080	1791	1394	837	423	303	4941	5382	6080	7348	6.6	37.7	234.2	56.5	164.4	20.9

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	0.45	5.9	1.5	0.1	0.0	0.24	0.41	0.57	
02	0.74	5.8	2.3	0.2	0.0	0.41	0.64	1.12	
03	0.96	5.6	2.6	0.5	0.1	0.44	0.77	1.32	
04	1.93	8.7	4.6	1.3	0.3	0.88	1.96	2.64	
05	3.25	11.0	6.5	2.0	0.7	2.08	3.26	4.46	
06	3.69	11.4	6.5	2.4	1.0	2.28	3.30	4.65	
07	2.39	9.1	4.6	1.5	0.5	1.10	2.05	3.38	
08	1.95	7.9	3.9	1.1	0.4	0.85	1.92	3.10	
09	1.74	6.4	3.3	1.0	0.3	0.80	1.23	2.13	
10	1.69	6.8	3.7	1.0	0.3	0.75	1.27	2.46	
11	0.77	5.3	1.9	0.2	0.0	0.25	0.59	0.98	
12	0.64	5.6	1.9	0.1	0.0	0.16	0.45	1.01	
Summary	20.20	89.5	43.3	11.4	3.6	10.24	17.85	27.82	

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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	5.10	5.6	1.7	0.4	0.2	0.0	20.1	10.8	4.3	1.2	2.60	4.80	6.60
02	8.00	5.3	2.5	0.8	0.2	0.0	13.4	9.8	6.9	2.9	3.70	6.50	10.90
03	5.00	3.3	1.7	0.5	0.2	0.0	9.2	5.9	3.4	1.9	1.80	4.10	8.30
04	5.30	2.0	1.4	0.6	0.3	0.1	2.5	1.4	1.0	0.2	0.00	2.90	6.70
05	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
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	0.7	0.5	0.1	0.0	0.0	0.8	0.4	0.2	0.0	0.00	0.00	0.50
11	6.30	3.9	1.6	0.8	0.3	0.0	5.6	2.6	1.7	0.3	2.10	4.80	9.60
12	6.20	5.2	2.4	0.4	0.1	0.0	15.0	9.1	4.0	1.0	2.90	5.80	9.00
Summary	37.2	26.0	11.8	3.6	1.3	0.1	66.6	40.0	21.5	7.5	13.1	28.9	51.6

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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	3.0	14.6	76.8	232.7	534.8	833.9	1083.1	1022.8	708.1	302.8	59.6	5.4
45	0.5	4.7	34.4	134.2	388.6	684.0	928.0	867.8	559.7	191.1	25.4	1.2
50	0.0	1.1	12.8	67.3	257.0	534.5	773.1	712.8	416.0	105.8	8.1	0.1
55	0.0	0.1	3.8	27.4	148.0	387.7	618.2	558.5	283.6	50.7	2.1	0.0
60	0.0	0.0	0.8	8.8	71.9	249.5	463.8	406.5	172.8	19.9	0.2	0.0
Growing Degree Units for Corn (Monthly)												
50/86	4.6	16.6	70.1	162.9	322.2	526.3	703.7	657.0	436.2	194.2	51.7	7.3

Growing Degree Units (Accumulated Monthly)												
40	3	18	94	327	862	1696	2779	3802	4510	4813	4872	4878
45	0	5	40	174	562	1246	2174	3042	3602	3793	3818	3820
50	0	1	14	81	338	873	1646	2359	2775	2880	2889	2889
55	0	0	4	31	179	567	1185	1744	2027	2078	2080	2080
60	0	0	1	10	82	331	795	1201	1374	1394	1394	1394
Growing Degree Units for Corn (Monthly Accumulated)												
50/86	5	21	91	254	576	1103	1806	2463	2900	3094	3145	3153

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

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