

Summary of Monthly Normals
1991-2020

Current Location: Elev: 4720 ft. Lat: 44.0622° N Lon: 103.4819° W
Station: **PACTOLA DAM, SD US USC00396427**
Generated on 06/05/2024

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	35.8	11.4	23.6	3.8	3.5	3.5	0.0	0.0	0.0	0.0	0.0	0.0	973.4	1035.4	1128.4	1283.4	0.0	0.0	4.3	10.4	30.5	6.9
02	36.2	11.2	23.7	5.9	6.0	5.9	0.0	0.0	0.0	0.0	0.0	0.0	876.2	932.2	1016.3	1156.4	0.0	0.0	5.1	10.1	27.7	6.2
03	43.8	18.8	31.3	5.0	4.2	4.5	0.0	0.0	0.0	0.0	0.0	0.0	734.9	796.8	889.8	1044.8	0.0	0.0	11.4	6.2	29.5	2.2
04	50.5	26.1	38.3	3.8	2.9	3.1	2.4	1.1	0.3	0.0	0.0	0.0	503.3	562.0	651.3	801.0	0.0	0.0	15.9	2.7	25.4	0.3
05	59.9	36.3	48.1	3.5	1.8	2.4	31.8	19.8	8.7	1.4	0.0	0.0	245.7	295.8	377.6	525.3	0.0	0.0	25.3	0.2	11.2	0.0
06	70.7	45.1	57.9	3.9	2.1	2.8	138.1	101.3	59.0	18.0	3.5	1.5	51.2	74.4	122.1	231.0	0.0	0.6	29.3	0.0	1.0	0.0
07	78.5	51.0	64.8	4.2	2.5	3.1	307.2	250.6	173.2	73.0	19.6	10.1	5.2	10.6	26.1	80.8	0.1	3.1	31.0	0.0	0.0	0.0
08	77.9	48.7	63.3	3.1	2.1	2.4	269.5	215.0	139.8	50.2	9.3	4.1	12.4	19.8	37.6	103.0	0.0	2.0	30.9	0.0	0.1	0.0
09	69.3	39.6	54.4	3.3	2.5	2.7	99.0	71.6	39.8	10.1	1.7	0.6	115.6	148.2	206.4	326.6	0.0	0.5	28.1	0.0	5.8	0.0
10	55.4	29.4	42.4	4.7	3.0	3.6	9.8	5.1	1.5	0.1	0.0	0.0	400.4	457.6	547.0	700.6	0.0	0.0	20.5	1.7	21.4	0.2
11	44.6	20.3	32.5	5.4	3.3	4.2	0.2	0.0	0.0	0.0	0.0	0.0	676.7	736.5	826.5	976.5	0.0	0.0	11.5	5.9	28.6	1.5
12	36.6	12.8	24.7	4.2	4.4	4.2	0.0	0.0	0.0	0.0	0.0	0.0	939.0	1001.0	1094.1	1249.2	0.0	0.0	4.7	10.7	30.8	5.5
Summary	54.9	29.2	42.1	4.2	3.2	3.5	858	664	422	153	34	16	5534	6070	6923	8479	0.1	6.2	218.0	47.9	212.0	22.8

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	0.33	5.8	1.2	0.0	0.0	0.17	0.31	0.47	
02	0.56	7.1	1.6	0.1	0.0	0.31	0.55	0.78	
03	1.05	7.6	3.3	0.5	0.0	0.64	0.99	1.45	
04	2.32	10.4	6.0	1.5	0.2	1.67	2.15	2.77	
05	4.26	13.2	7.7	2.5	1.0	2.40	3.00	5.63	
06	3.53	13.0	8.0	2.2	0.6	1.81	3.12	5.10	
07	3.07	12.2	6.9	1.8	0.6	1.98	2.88	3.73	
08	2.38	9.3	5.4	1.4	0.3	1.58	2.27	3.08	
09	1.59	7.1	3.6	1.0	0.2	0.78	1.39	2.21	
10	1.55	7.4	3.7	0.8	0.4	0.66	1.06	1.57	
11	0.53	5.0	1.7	0.1	0.0	0.25	0.44	0.65	
12	0.36	5.0	1.2	0.0	0.0	0.15	0.30	0.49	
Summary	21.53	103.1	50.3	11.9	3.3	12.40	18.46	27.93	

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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	5.70	5.8	2.2	0.3	0.1	0.0	18.0	8.8	2.3	0.3	3.00	5.50	7.90
02	8.20	6.9	2.9	0.7	0.2	0.0	14.8	8.4	4.0	0.3	4.20	7.80	10.10
03	10.50	6.0	3.2	1.2	0.4	0.0	11.0	6.2	3.6	0.4	4.70	8.20	14.20
04	12.80	5.4	3.7	1.6	0.8	0.1	7.5	4.7	3.1	1.0	5.50	13.20	17.00
05	4.50	1.5	1.0	0.6	0.2	0.0	1.4	0.8	0.4	0.1	0.00	1.80	5.00
06	0.20	0.1	0.0	0.0	0.0	0.0	0.1	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	0.80	0.3	0.3	0.1	0.0	0.0	0.4	0.2	0.0	0.0	0.00	0.00	0.00
10	6.30	2.4	1.5	0.4	0.3	0.1	3.5	1.9	1.0	0.2	0.10	1.90	7.60
11	6.50	4.3	2.2	0.7	0.2	0.0	8.3	4.2	2.0	0.4	2.80	4.60	7.80
12	5.40	4.9	2.1	0.4	0.1	0.0	15.0	6.5	2.1	0.1	1.50	5.50	7.70
Summary	60.9	37.6	19.1	6.0	2.3	0.2	80.0	41.7	18.5	2.8	21.8	48.5	77.3

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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	5.0	7.7	36.2	87.0	274.9	537.7	767.0	722.2	441.0	164.7	42.8	6.2
45	0.7	1.4	11.7	36.7	162.5	391.3	612.1	567.9	305.5	83.5	14.9	0.8
50	0.0	0.1	2.2	11.3	81.5	254.0	457.9	415.3	188.2	34.2	3.7	0.1
55	0.0	0.0	0.0	2.4	31.8	138.1	307.2	269.5	99.0	9.8	0.2	0.0
60	0.0	0.0	0.0	0.3	8.7	59.0	173.2	139.8	39.8	1.5	0.0	0.0
Growing Degree Units for Corn (Monthly)												
50/86	8.6	12.8	43.8	81.3	174.9	320.2	472.4	449.9	298.0	135.4	47.5	10.0

Growing Degree Units (Accumulated Monthly)												
40	5	13	49	136	411	948	1716	2438	2879	3043	3086	3092
45	1	2	14	50	213	604	1216	1784	2090	2173	2188	2189
50	0	0	2	14	95	349	807	1222	1410	1445	1448	1448
55	0	0	0	2	34	172	480	749	848	858	858	858
60	0	0	0	0	9	68	241	381	421	422	422	422
Growing Degree Units for Corn (Monthly Accumulated)												
50/86	9	21	65	146	321	642	1114	1564	1862	1997	2045	2055

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