

Summary of Monthly Normals
1991-2020

Current Location: Elev: 2373 ft. Lat: 43.9611° N Lon: 101.8606° W
Station: COTTONWOOD 2 E, SD US USC00391972
Generated on 05/20/2024

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	33.1	8.1	20.6	6.2	3.8	4.8	0.0	0.0	0.0	0.0	0.0	0.0	1066.3	1128.3	1221.3	1376.3	0.0	0.0	4.7	12.9	30.7	9.0
02	37.0	10.5	23.8	8.4	7.1	7.6	0.2	0.0	0.0	0.0	0.0	0.0	874.9	930.8	1014.7	1154.8	0.0	0.0	7.5	9.5	27.4	6.3
03	47.6	20.4	34.0	7.2	4.3	5.5	3.4	1.8	0.5	0.0	0.0	0.0	654.6	714.9	806.6	961.1	0.0	0.0	15.2	4.8	27.8	2.1
04	57.8	30.0	43.9	4.2	2.8	3.2	20.7	13.5	6.2	0.9	0.2	0.1	353.7	406.4	489.2	633.9	0.0	0.2	22.6	1.2	17.7	0.1
05	68.3	42.0	55.1	4.5	2.2	2.9	120.7	91.2	55.5	19.1	4.8	2.3	116.2	148.7	206.0	324.5	0.0	1.3	29.2	0.0	4.7	0.0
06	79.4	52.7	66.0	4.3	2.6	3.1	341.1	287.1	212.2	110.0	43.2	27.2	9.7	15.7	30.8	78.6	0.9	5.3	30.0	0.0	0.1	0.0
07	88.2	59.2	73.7	5.1	2.7	3.6	579.6	518.0	426.5	281.4	156.8	115.9	0.2	0.5	2.1	11.9	3.9	15.9	31.0	0.0	0.0	0.0
08	87.6	55.8	71.7	3.5	2.8	2.6	519.6	459.0	369.9	231.1	116.4	81.1	2.1	3.5	7.4	23.6	3.8	15.5	31.0	0.0	0.0	0.0
09	78.2	45.0	61.6	3.4	2.8	2.7	242.3	198.7	141.9	70.0	26.4	16.7	44.5	60.9	94.1	172.2	1.3	6.9	29.6	0.0	2.2	0.0
10	61.8	31.3	46.6	5.2	2.9	3.6	37.4	25.8	13.7	3.7	0.5	0.2	299.3	349.7	430.6	575.5	0.0	0.8	25.5	0.9	17.0	0.1
11	47.1	19.2	33.2	6.8	3.6	4.8	1.3	0.6	0.1	0.0	0.0	0.0	656.8	716.1	805.6	955.5	0.0	0.0	14.6	4.9	27.8	1.7
12	35.7	10.2	23.0	6.9	4.8	5.7	0.0	0.0	0.0	0.0	0.0	0.0	993.2	1055.2	1148.2	1303.3	0.0	0.0	6.5	10.9	30.8	6.2
Summary	60.2	32.0	46.1	5.5	3.5	4.2	1866	1596	1226	716	348	243	5071	5531	6257	7571	9.9	45.9	247.4	45.1	186.2	25.5

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	0.41	4.6	1.2	0.1	0.0	0.24	0.34	0.50
02	0.56	5.1	1.7	0.1	0.0	0.22	0.52	0.77
03	1.03	5.7	2.6	0.5	0.1	0.50	1.01	1.50
04	1.96	8.6	4.7	1.1	0.2	1.34	1.96	2.65
05	2.90	10.0	5.4	1.8	0.6	1.22	2.36	3.94
06	3.09	11.9	6.7	2.0	0.4	1.89	2.60	4.37
07	2.10	8.9	4.6	1.3	0.4	0.79	1.44	2.82
08	1.63	6.6	3.6	0.9	0.3	0.97	1.42	2.33
09	1.22	5.2	2.8	0.7	0.2	0.63	0.90	1.42
10	1.46	6.7	3.0	0.9	0.2	0.65	1.21	1.72
11	0.54	4.5	1.6	0.2	0.0	0.18	0.45	0.70
12	0.48	4.4	1.3	0.0	0.0	0.14	0.38	0.75
Summary	17.38	82.2	39.2	9.6	2.4	8.77	14.59	23.47

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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	5.40	4.0	2.1	0.6	0.1	0.0	16.8	9.9	4.4	0.5	2.40	5.00	7.80
02	6.30	4.2	2.3	0.7	0.3	0.0	11.3	6.2	4.3	0.5	2.50	5.30	8.10
03	6.30	3.2	2.1	0.9	0.2	0.0	7.4	4.3	1.9	0.5	1.70	5.80	8.90
04	6.80	2.4	1.9	1.0	0.5	0.1	3.0	1.6	1.1	0.2	1.00	4.00	9.80
05	0.40	0.1	0.1	0.0	0.0	0.0	0.1	0.1	0.1	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	2.20	0.9	0.6	0.3	0.1	0.0	1.3	0.7	0.2	0.0	0.00	0.00	3.70
11	4.80	2.7	1.7	0.6	0.1	0.0	6.0	2.7	1.2	0.0	0.60	4.90	7.50
12	6.00	3.8	2.2	0.6	0.3	0.0	13.8	6.3	2.3	0.3	1.50	5.30	9.10
Summary	38.2	21.3	13.0	4.7	1.6	0.1	59.7	31.8	15.5	2.0	9.7	30.3	54.9

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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	4.6	14.6	74.4	192.6	475.6	781.4	1044.3	982.4	649.4	262.1	57.3	5.6
45	1.0	5.0	33.2	107.4	335.3	631.7	889.3	827.5	503.6	158.4	24.0	0.9
50	0.1	1.2	11.5	52.1	215.0	483.6	734.4	673.0	365.3	82.5	7.1	0.1
55	0.0	0.2	3.4	20.7	120.7	341.1	579.6	519.6	242.3	37.4	1.3	0.0
60	0.0	0.0	0.5	6.2	55.5	212.2	426.5	369.9	141.9	13.7	0.1	0.0
Growing Degree Units for Corn (Monthly)												
50/86	11.5	24.5	85.6	159.1	297.6	485.5	663.4	617.2	419.0	210.3	72.7	16.3

Growing Degree Units (Accumulated Monthly)												
40	5	19	94	286	762	1543	2588	3570	4219	4481	4539	4544
45	1	6	39	147	482	1114	2003	2830	3334	3492	3516	3517
50	0	1	13	65	280	764	1498	2171	2536	2619	2626	2626
55	0	0	4	24	145	486	1066	1585	1828	1865	1866	1866
60	0	0	0	7	62	274	701	1071	1213	1226	1226	1226
Growing Degree Units for Corn (Monthly Accumulated)												
50/86	12	36	122	281	578	1064	1727	2344	2763	2974	3046	3063

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