

Summary of Monthly Normals
1991-2020

Generated on 05/03/2024

Current Location: Elev: 1365 ft. Lat: 43.6514° N Lon: 97.7981° W

Station: ALEXANDRIA, SD US USC00390128

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	25.3	5.8	15.5	5.5	5.5	5.4	0.0	0.0	0.0	0.0	0.0	0.0	1222.7	1284.7	1377.7	1532.8	0.0	0.0	1.4	18.4	30.7	8.8
02	31.0	9.6	20.3	8.1	7.5	7.6	0.1	0.0	0.0	0.0	0.0	0.0	971.5	1027.5	1111.5	1251.5	0.0	0.0	4.1	13.3	26.6	6.3
03	43.8	20.7	32.2	7.2	5.2	5.9	4.1	2.6	1.4	0.4	0.0	0.0	709.4	769.9	861.7	1015.7	0.0	0.0	12.7	5.8	24.4	1.4
04	57.6	31.9	44.8	4.9	3.6	4.1	26.0	17.4	9.0	2.4	0.4	0.1	333.5	384.9	466.5	609.9	0.0	0.2	23.5	0.9	12.2	0.0
05	69.4	44.4	56.9	3.4	2.8	2.9	147.4	113.4	72.6	27.9	7.0	3.5	88.5	116.6	168.8	279.1	0.0	1.1	30.4	0.0	1.4	0.0
06	79.3	55.6	67.4	3.2	3.0	3.0	376.9	320.6	240.1	126.3	49.9	31.3	3.6	7.2	16.7	52.9	0.1	4.9	30.0	0.0	0.0	0.0
07	84.2	60.0	72.1	4.1	3.1	3.5	529.9	468.2	376.7	231.6	113.2	78.1	0.0	0.3	1.8	11.6	0.9	9.8	31.0	0.0	0.0	0.0
08	81.8	57.4	69.6	2.7	2.2	2.3	453.6	392.7	303.4	168.5	67.5	41.6	1.1	2.1	5.9	25.9	0.2	6.1	31.0	0.0	0.0	0.0
09	75.1	48.6	61.9	3.7	3.1	3.2	240.1	195.3	137.2	64.6	21.9	12.1	34.7	50.1	81.9	159.3	0.0	3.2	29.9	0.0	0.3	0.0
10	60.0	34.7	47.4	4.8	2.7	3.5	42.3	29.3	15.8	4.5	0.8	0.3	279.4	328.4	408.0	551.6	0.0	0.1	25.7	0.4	9.1	0.0
11	43.2	21.4	32.3	7.0	4.5	5.5	1.7	0.7	0.2	0.0	0.0	0.0	682.7	741.7	831.2	981.0	0.0	0.0	12.3	5.9	23.8	0.7
12	29.2	10.3	19.7	6.1	5.4	5.6	0.0	0.0	0.0	0.0	0.0	0.0	1092.5	1154.5	1247.5	1402.6	0.0	0.0	2.0	15.4	30.5	5.3
Summary	56.7	33.4	45.0	5.1	4.1	4.4	1822	1540	1156	626	261	167	5420	5868	6579	7874	1.2	25.4	234.0	60.1	159.0	22.5

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	0.47	4.6	1.3	0.2	0.1	0.20	0.39	0.64	
02	0.74	4.7	2.1	0.3	0.1	0.36	0.53	0.88	
03	1.13	5.8	2.9	0.7	0.1	0.53	1.00	1.35	
04	2.88	8.0	5.5	2.0	0.6	1.95	2.69	3.75	
05	3.64	10.8	7.3	2.3	0.9	1.99	3.42	4.91	
06	3.97	10.0	7.0	2.7	1.3	2.44	3.32	4.87	
07	3.13	7.9	5.7	2.2	0.8	1.50	2.27	4.73	
08	3.02	7.1	4.9	2.0	0.9	1.56	2.79	3.93	
09	2.81	6.6	4.3	1.7	0.8	1.62	2.52	3.60	
10	2.01	6.7	4.3	1.4	0.6	0.93	1.51	2.65	
11	0.92	4.3	2.4	0.6	0.2	0.17	0.67	1.26	
12	0.60	4.6	1.8	0.3	0.0	0.19	0.45	0.86	
Summary	25.32	81.1	49.5	16.4	6.4	13.44	21.56	33.43	

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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	6.10	3.9	2.0	0.7	0.3	0.0	18.8	9.8	4.1	0.2	2.10	4.20	6.40
02	8.00	3.7	2.5	0.8	0.4	0.0	11.2	5.6	2.6	0.6	3.00	5.00	13.30
03	5.20	2.7	1.8	0.7	0.3	0.1	6.5	3.1	1.3	0.6	2.20	4.30	6.80
04	4.70	1.8	1.4	0.7	0.4	0.1	2.1	1.1	0.8	0.2	0.00	3.00	6.80
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	0.90	0.4	0.3	0.1	0.1	0.0	0.7	0.1	0.0	0.0	0.00	0.00	0.00
11	3.20	1.6	1.1	0.3	0.1	0.0	3.3	1.4	0.4	0.0	0.50	2.80	4.50
12	8.20	4.1	2.2	0.9	0.3	0.0	14.9	4.7	1.5	0.1	4.50	6.00	11.10
Summary	36.3	18.2	11.3	4.2	1.9	0.2	57.5	25.8	10.7	1.7	12.3	25.3	48.9

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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	0.9	7.5	63.9	214.7	526.8	823.2	994.7	917.4	655.7	280.5	53.3	1.7
45	0.1	2.2	31.2	123.7	381.8	673.2	839.7	762.4	508.4	173.8	24.0	0.4
50	0.0	0.5	13.2	61.6	252.6	523.8	684.9	607.6	367.3	93.5	8.3	0.1
55	0.0	0.1	4.1	26.0	147.4	376.9	529.9	453.6	240.1	42.3	1.7	0.0
60	0.0	0.0	1.4	9.0	72.6	240.1	376.7	303.4	137.2	15.8	0.2	0.0
Growing Degree Units for Corn (Monthly)												
50/86	2.1	9.7	57.9	155.1	322.2	524.9	657.5	600.1	414.3	189.1	44.6	3.3

Growing Degree Units (Accumulated Monthly)												
40	1	8	72	287	814	1637	2632	3549	4205	4485	4539	4540
45	0	2	34	157	539	1212	2052	2814	3323	3497	3521	3521
50	0	0	14	75	328	852	1537	2144	2512	2605	2613	2613
55	0	0	4	30	178	554	1084	1538	1778	1820	1822	1822
60	0	0	1	10	83	323	700	1003	1140	1156	1156	1156
Growing Degree Units for Corn (Monthly Accumulated)												
50/86	2	12	70	225	547	1072	1729	2330	2744	2933	2978	2981

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