

Summary of Monthly Normals
1991-2020

Generated on 06/03/2024

Current Location: Elev: 1685 ft. Lat: 39.4767° N Lon: 98.9714° W

Station: **ALTON 1 W, KS US USC00140201**

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	41.6	14.4	28.0	4.8	3.4	3.6	0.0	0.0	0.0	0.0	0.0	0.0	836.7	898.7	991.7	1146.7	0.0	0.0	10.1	9.4	30.7	3.4
02	46.0	17.9	31.9	7.1	4.3	5.3	1.3	0.7	0.1	0.0	0.0	0.0	646.4	701.8	785.3	925.1	0.0	0.0	12.6	5.8	26.3	2.3
03	56.7	27.1	41.9	5.3	3.8	4.1	18.0	11.2	4.2	0.4	0.0	0.0	424.2	479.3	565.4	716.6	0.0	0.0	20.4	1.8	22.7	0.8
04	66.5	36.4	51.4	3.6	3.1	3.0	73.4	53.4	30.5	9.5	2.2	1.0	179.8	219.8	287.0	415.9	0.0	0.6	26.7	0.3	10.5	0.0
05	76.3	48.3	62.3	3.8	2.7	2.9	257.8	212.2	150.7	72.1	26.2	15.2	31.5	47.8	79.4	155.7	0.3	3.5	30.7	0.0	1.7	0.0
06	87.6	59.5	73.5	3.6	2.5	2.8	557.4	498.2	410.6	273.8	155.6	117.0	1.1	1.9	4.3	17.5	1.6	11.7	30.0	0.0	0.0	0.0
07	92.6	65.3	78.9	4.2	2.6	3.0	742.1	680.1	587.1	433.4	285.6	230.7	0.0	0.0	0.0	1.3	7.1	20.1	31.0	0.0	0.0	0.0
08	90.6	62.6	76.6	3.5	2.9	2.9	669.5	607.6	515.2	363.1	223.7	174.9	0.2	0.3	0.9	3.8	5.8	17.9	31.0	0.0	0.0	0.0
09	82.9	52.9	67.9	3.9	3.1	3.3	397.3	342.9	265.8	157.2	79.1	56.2	10.4	16.1	29.0	70.4	1.0	8.9	29.9	0.0	0.6	0.0
10	70.0	39.3	54.6	4.0	3.5	3.3	123.0	94.2	59.3	23.9	7.9	5.1	133.9	167.1	225.2	344.8	0.1	1.8	29.1	0.3	8.5	0.0
11	55.8	25.9	40.9	5.7	2.8	3.8	11.7	7.1	3.4	0.7	0.1	0.0	436.1	491.4	577.7	725.1	0.0	0.0	18.3	2.0	23.6	0.2
12	44.0	17.5	30.7	4.5	3.3	3.6	0.1	0.0	0.0	0.0	0.0	0.0	751.5	813.4	906.4	1061.4	0.0	0.0	11.8	5.2	30.2	1.2
Summary	67.5	38.9	53.2	4.5	3.2	3.5	2852	2508	2027	1334	780	600	3452	3838	4452	5584	15.9	64.5	281.6	24.8	154.8	7.9

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	0.67	4.3	1.9	0.5	0.0	0.22	0.58	1.08	
02	0.69	4.5	2.3	0.5	0.0	0.28	0.64	1.02	
03	1.55	5.9	3.7	1.4	0.5	0.58	1.52	2.38	
04	2.30	8.3	4.9	1.6	0.4	1.50	2.12	3.02	
05	4.23	10.7	6.9	2.5	0.9	2.03	3.68	6.02	
06	3.51	9.5	5.9	2.8	0.8	1.80	3.16	4.57	
07	4.92	9.5	7.5	3.4	1.4	2.46	4.45	6.18	
08	3.85	8.6	5.6	1.7	1.0	2.24	3.36	5.51	
09	2.64	5.5	3.7	1.8	0.8	1.44	2.43	3.45	
10	2.11	6.2	3.5	0.8	0.5	0.76	1.60	3.30	
11	1.19	4.7	3.2	0.8	0.3	0.37	0.88	1.51	
12	0.93	3.3	1.8	0.5	0.0	0.25	0.54	1.61	
Summary	28.59	81.0	50.9	18.3	6.6	13.93	24.96	39.65	

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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	3.80	2.4	1.8	0.4	0.1	0.0	8.2	3.0	1.6	0.1	1.90	2.30	4.70
02	4.80	2.3	1.7	0.5	0.4	0.0	8.0	4.2	2.9	0.1	0.50	3.00	8.00
03	2.00	1.3	0.8	0.2	0.0	0.0	3.3	0.9	0.1	0.0	0.50	2.00	3.00
04	1.20	0.6	0.5	0.1	0.1	0.0	0.4	0.2	0.1	0.1	0.00	0.00	1.10
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	0.40	0.1	0.1	0.1	0.1	0.0	0.2	0.1	0.1	0.0	0.00	0.00	0.00
11	2.10	0.9	0.9	0.2	0.1	0.0	1.9	1.1	0.6	0.0	0.00	1.00	2.50
12	3.30	1.7	1.2	0.3	0.1	0.0	7.2	1.9	0.2	0.0	0.90	2.40	5.00
Summary	17.6	9.3	7.0	1.8	0.9	0.0	29.2	11.4	5.6	0.3	3.8	10.7	24.3

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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	15.4	43.6	174.0	364.1	691.6	1006.1	1207.0	1134.2	836.8	467.2	138.6	19.4
45	2.6	16.2	97.9	242.1	538.0	856.2	1052.0	979.2	687.5	330.8	73.9	4.9
50	0.0	5.7	46.9	143.0	389.5	706.3	897.1	824.3	539.9	214.7	33.1	0.9
55	0.0	1.3	18.0	73.4	257.8	557.4	742.1	669.5	397.3	123.0	11.7	0.1
60	0.0	0.1	4.2	30.5	150.7	410.6	587.1	515.2	265.8	59.3	3.4	0.0
Growing Degree Units for Corn (Monthly)												
50/86	39.3	64.1	158.1	259.6	436.0	645.3	778.0	729.0	535.5	325.6	136.4	39.9

Growing Degree Units (Accumulated Monthly)												
40	15	59	233	597	1289	2295	3502	4636	5473	5940	6079	6098
45	3	19	117	359	897	1753	2805	3784	4472	4802	4876	4881
50	0	6	53	196	585	1291	2188	3013	3553	3767	3800	3801
55	0	1	19	93	350	908	1650	2320	2717	2840	2852	2852
60	0	0	4	35	186	596	1183	1698	1964	2024	2027	2027
Growing Degree Units for Corn (Monthly Accumulated)												
50/86	39	103	262	521	957	1602	2380	3109	3645	3970	4107	4147

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