

Summary of Monthly Normals
1991-2020

Generated on 06/04/2024

Current Location: Elev: 1441 ft. Lat: 38.0231° N Lon: 97.3553° W

Station: NEWTON, KS US USC00145744

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	41.7	20.3	31.0	4.4	3.4	3.6	0.1	0.0	0.0	0.0	0.0	0.0	744.0	805.9	898.9	1053.9	0.0	0.0	9.8	8.2	28.4	0.7
02	46.6	23.8	35.2	6.2	4.6	5.1	3.7	2.1	0.8	0.1	0.0	0.0	558.0	612.4	695.1	834.4	0.0	0.0	12.4	5.0	22.6	0.4
03	57.3	33.1	45.2	4.7	4.5	4.3	32.1	22.2	11.8	2.8	0.2	0.0	336.0	388.1	470.6	616.6	0.0	0.0	21.9	1.1	15.0	0.2
04	66.9	42.9	54.9	3.9	3.5	3.5	117.8	89.7	55.3	19.2	4.1	2.0	120.8	152.7	208.3	322.2	0.0	0.2	27.5	0.1	4.5	0.0
05	76.3	54.7	65.5	3.7	3.0	3.2	340.7	288.5	216.9	117.8	50.4	32.4	15.2	25.0	46.4	102.3	0.1	2.4	30.8	0.0	0.2	0.0
06	87.0	65.0	76.0	3.3	2.0	2.5	630.1	570.3	481.1	335.3	200.0	152.9	0.2	0.4	1.2	5.4	1.0	12.6	30.0	0.0	0.0	0.0
07	92.0	69.8	80.9	3.9	2.7	3.1	802.8	740.8	647.8	493.0	341.2	283.0	0.0	0.0	0.0	0.2	5.2	20.3	31.0	0.0	0.0	0.0
08	90.3	67.6	79.0	4.0	2.8	3.2	742.4	680.4	587.4	433.5	285.4	230.9	0.0	0.0	0.1	1.1	4.3	17.5	31.0	0.0	0.0	0.0
09	82.5	59.0	70.7	3.9	3.3	3.4	477.0	420.4	338.7	215.0	117.5	87.2	4.6	8.0	16.3	42.6	0.7	8.0	30.0	0.0	0.0	0.0
10	69.7	45.7	57.7	3.8	2.7	3.0	171.3	135.5	91.1	39.4	12.8	7.6	87.6	113.8	162.4	265.7	0.0	0.6	29.1	0.1	2.9	0.0
11	55.7	33.2	44.4	5.2	4.0	4.3	24.3	15.9	7.3	1.4	0.1	0.0	340.7	392.4	473.8	617.8	0.0	0.0	21.0	0.9	14.6	0.0
12	43.9	23.9	33.9	4.3	3.7	3.7	0.9	0.4	0.1	0.0	0.0	0.0	654.8	716.3	809.0	963.9	0.0	0.0	11.2	5.8	26.6	0.3
Summary	67.5	44.9	56.2	4.3	3.4	3.6	3343	2966	2438	1658	1012	796	2862	3215	3782	4826	11.3	61.6	285.7	21.2	114.8	1.6

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	0.80	4.2	1.9	0.6	0.1	0.23	0.55	1.18	
02	1.25	4.8	2.7	0.7	0.3	0.54	0.90	1.98	
03	2.38	7.1	4.5	1.6	0.5	1.26	2.31	3.22	
04	2.92	7.7	5.1	2.2	0.8	1.75	2.98	3.66	
05	4.89	9.7	6.9	3.2	1.4	2.76	4.03	5.98	
06	5.01	8.5	6.3	3.1	1.6	2.82	5.13	5.93	
07	4.20	8.3	5.9	2.9	1.2	2.74	3.58	5.60	
08	3.89	7.8	5.9	2.4	1.2	2.51	3.27	5.44	
09	2.98	6.4	4.4	1.9	1.0	1.10	2.15	4.35	
10	2.64	6.6	4.2	1.8	0.6	1.10	2.13	3.46	
11	1.65	4.9	2.7	0.9	0.4	0.25	0.96	2.47	
12	1.16	5.0	2.6	0.7	0.2	0.40	0.92	1.59	
Summary	33.77	81.0	53.1	22.0	9.3	17.46	28.91	44.86	

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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	2.10	1.6	1.0	0.3	0.1	0.0	2.4	0.6	0.3	0.0	0.00	0.50	3.40
02	1.30	1.4	0.6	0.3	0.1	0.0	1.9	0.7	0.1	0.0	0.00	0.00	1.80
03	1.20	0.6	0.4	0.2	0.0	0.0	0.8	0.3	0.1	0.0	0.00	0.00	3.00
04	0.30	0.2	0.1	0.1	0.0	0.0	0.1	0.1	0.0	0.0	0.00	0.00	0.00
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	0.10	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00
11	0.60	0.4	0.2	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.00	0.00	0.00
12	3.20	1.5	0.9	0.4	0.1	0.0	2.2	0.9	0.2	0.0	0.00	2.10	4.40
Summary	8.8	5.8	3.2	1.3	0.3	0.0	7.7	2.6	0.7	0.0	0.0	2.6	12.6

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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	30.4	72.4	233.6	456.9	790.5	1079.8	1267.8	1207.3	922.4	555.4	206.3	48.0
45	8.8	33.4	140.3	323.3	636.0	929.8	1112.8	1052.3	772.6	411.0	118.2	16.3
50	1.5	12.2	72.9	206.7	483.7	779.9	957.8	897.3	623.5	280.1	59.0	4.4
55	0.1	3.7	32.1	117.8	340.7	630.1	802.8	742.4	477.0	171.3	24.3	0.9
60	0.0	0.8	11.8	55.3	216.9	481.1	647.8	587.4	338.7	91.1	7.3	0.1
Growing Degree Units for Corn (Monthly)												
50/86	31.9	59.4	160.2	279.1	497.1	726.2	850.0	807.4	599.6	343.9	131.2	37.2

Growing Degree Units (Accumulated Monthly)												
40	30	103	336	793	1584	2664	3931	5139	6061	6616	6823	6871
45	9	42	182	506	1142	2072	3184	4237	5009	5420	5538	5555
50	2	14	87	293	777	1557	2515	3412	4036	4316	4375	4379
55	0	4	36	154	494	1124	1927	2670	3147	3318	3342	3343
60	0	1	13	68	285	766	1414	2001	2340	2431	2438	2438
Growing Degree Units for Corn (Monthly Accumulated)												
50/86	32	91	252	531	1028	1754	2604	3411	4011	4355	4486	4523

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