

Summary of Monthly Normals
1991-2020

Generated on 04/28/2024

Current Location: Elev: 1010 ft. Lat: 37.4664° N Lon: 96.2714° W

Station: HOWARD, KS US USC00143822

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	43.5	19.9	31.7	4.5	3.2	3.5	1.1	0.7	0.3	0.0	0.0	0.0	723.3	784.9	877.5	1032.2	0.0	0.0	11.1	6.4	28.1	0.9
02	48.5	23.3	35.9	5.8	4.4	4.8	3.9	2.3	1.0	0.1	0.0	0.0	538.6	593.1	675.8	814.8	0.0	0.0	13.7	3.6	22.6	0.1
03	58.6	32.3	45.4	4.6	4.1	4.1	32.7	22.3	11.6	3.0	0.4	0.2	328.8	380.3	462.7	609.0	0.0	0.0	23.5	0.9	14.8	0.1
04	68.2	42.5	55.4	3.9	3.8	3.6	118.6	89.8	55.5	18.5	3.7	1.6	108.2	139.3	195.0	308.0	0.0	0.2	28.4	0.0	4.2	0.0
05	76.2	53.5	64.9	3.5	3.1	3.0	318.9	266.1	194.1	97.9	35.4	20.8	13.6	22.8	43.8	102.5	0.0	1.0	30.9	0.0	0.2	0.0
06	85.0	63.1	74.1	3.0	2.4	2.5	571.5	511.8	422.6	277.8	147.4	103.5	0.1	0.4	1.2	6.4	0.2	7.2	30.0	0.0	0.0	0.0
07	90.4	67.5	78.9	3.5	2.5	2.7	742.4	680.4	587.4	432.6	281.5	224.3	0.0	0.0	0.0	0.2	3.2	18.0	31.0	0.0	0.0	0.0
08	90.0	65.4	77.7	4.2	2.6	3.1	703.6	641.6	548.7	394.6	248.4	195.1	0.0	0.0	0.1	1.0	3.5	17.4	31.0	0.0	0.0	0.0
09	82.4	56.5	69.4	3.5	3.3	3.1	438.4	381.7	300.0	178.3	88.2	61.3	4.9	8.2	16.5	44.9	0.6	6.3	30.0	0.0	0.0	0.0
10	70.7	44.1	57.4	3.8	3.1	3.0	161.1	125.6	81.3	30.9	8.4	4.4	86.7	113.2	161.9	266.5	0.0	0.3	29.5	0.1	3.2	0.0
11	57.3	32.1	44.7	5.1	4.0	4.1	25.0	16.4	8.2	1.8	0.3	0.0	333.9	385.4	467.1	610.8	0.0	0.0	22.8	0.6	15.9	0.0
12	46.0	23.3	34.6	3.8	3.6	3.4	2.5	1.5	0.7	0.0	0.0	0.0	633.2	694.3	786.4	940.7	0.0	0.0	12.7	4.3	25.4	0.3
Summary	68.1	43.6	55.8	4.1	3.3	3.4	3120	2740	2211	1436	814	611	2771	3122	3688	4737	7.5	50.4	294.6	15.9	114.4	1.4

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	1.03	4.1	2.0	0.5	0.1	0.33	0.69	1.65	
02	1.73	4.8	3.6	1.1	0.2	0.85	1.33	2.18	
03	2.75	6.8	4.5	1.9	0.9	1.57	2.60	3.92	
04	3.63	7.9	5.6	2.5	1.1	2.42	3.56	4.69	
05	5.09	9.6	7.0	3.6	1.5	2.49	4.60	6.33	
06	5.69	8.6	6.3	3.4	1.7	2.44	4.14	8.33	
07	4.01	7.6	5.6	2.9	1.4	2.82	3.64	5.47	
08	3.59	6.4	4.6	2.3	1.2	2.12	3.05	4.73	
09	3.54	6.7	4.6	2.2	1.0	1.65	2.87	5.11	
10	3.52	6.3	4.5	1.9	1.1	1.85	3.15	4.64	
11	2.23	5.1	3.9	1.5	0.6	0.82	1.45	3.32	
12	1.77	4.9	3.0	1.2	0.3	0.69	1.43	3.07	
Summary	38.58	78.8	55.2	25.0	11.1	20.05	32.51	53.44	

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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	2.20	1.6	0.9	0.3	0.2	0.0	3.8	1.9	0.9	0.0	0.00	0.10	4.00
02	0.80	1.2	0.4	0.1	0.0	0.0	2.0	0.6	0.0	0.0	0.00	0.00	1.80
03	0.90	0.6	0.5	0.3	0.0	0.0	0.7	0.4	0.1	0.0	0.00	0.00	0.60
04	0.10	0.1	0.0	0.0	0.0	0.0	0.1	0.0	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	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00
11	0.90	0.3	0.2	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.00	0.00	0.30
12	1.50	1.4	0.8	0.3	0.2	0.0	3.4	1.9	0.6	0.0	0.00	0.00	1.80
Summary	6.4	5.2	2.8	1.0	0.4	0.0	10.2	4.8	1.6	0.0	0.0	0.1	8.5

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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	35.5	71.7	235.6	467.8	770.4	1021.3	1207.3	1168.5	883.4	544.9	207.5	54.5
45	12.3	33.0	140.2	332.3	616.0	871.4	1052.3	1013.5	733.5	400.4	118.8	20.9
50	3.7	13.1	73.4	213.0	463.5	721.4	897.3	858.5	584.4	269.3	58.9	7.4
55	1.1	3.9	32.7	118.6	318.9	571.5	742.4	703.6	438.4	161.1	25.0	2.5
60	0.3	1.0	11.6	55.5	194.1	422.6	587.4	548.7	300.0	81.3	8.2	0.7
Growing Degree Units for Corn (Monthly)												
50/86	40.3	68.9	173.2	296.0	487.7	693.3	814.6	774.5	574.4	352.0	146.0	48.1

Growing Degree Units (Accumulated Monthly)												
40	36	107	343	811	1581	2602	3810	4978	5862	6406	6614	6668
45	12	45	186	518	1134	2005	3058	4071	4804	5205	5324	5345
50	4	17	90	303	767	1488	2385	3244	3828	4098	4156	4164
55	1	5	38	156	475	1047	1789	2493	2931	3092	3117	3120
60	0	1	13	68	262	685	1272	1821	2121	2202	2211	2211
Growing Degree Units for Corn (Monthly Accumulated)												
50/86	40	109	282	578	1066	1759	2574	3348	3923	4275	4421	4469

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