

Summary of Monthly Normals
1991-2020
 Generated on 08/02/2021

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	48.2	30.0	39.1	4.2	4.4	4.2	8.7	5.2	1.8	0.1	0.0	0.0	501.4	559.8	649.4	802.8	0.0	0.0	13.7	2.7	18.5	0.1
02	52.8	33.1	42.9	4.4	4.0	4.0	13.0	8.0	3.4	0.4	0.0	0.0	350.3	401.3	480.7	617.8	0.0	0.0	17.2	1.0	13.8	0.0
03	61.4	39.8	50.6	4.4	3.7	3.9	62.0	43.6	23.6	5.2	0.3	0.0	198.4	242.0	314.9	451.6	0.0	0.0	26.2	0.2	7.5	0.0
04	71.2	48.0	59.6	2.9	2.9	2.8	188.4	148.9	97.7	36.1	7.7	2.9	50.4	70.9	109.7	198.1	0.0	0.0	29.4	0.0	1.0	0.0
05	78.9	56.9	67.9	2.8	3.1	2.9	405.0	347.0	264.1	143.3	53.8	29.6	5.1	9.1	19.2	53.4	0.0	1.1	31.0	0.0	0.0	0.0
06	85.7	64.9	75.3	2.4	1.7	1.9	608.9	548.9	459.0	311.2	172.5	122.9	0.0	0.0	0.2	2.3	0.1	6.8	30.0	0.0	0.0	0.0
07	88.4	68.7	78.5	2.6	1.7	2.0	730.0	667.9	574.9	420.0	265.8	205.7	0.0	0.0	0.0	0.0	0.1	12.9	31.0	0.0	0.0	0.0
08	87.8	67.5	77.6	2.7	2.0	2.2	702.0	640.0	547.0	392.1	238.7	179.7	0.0	0.0	0.0	0.1	0.1	11.2	31.0	0.0	0.0	0.0
09	82.5	61.1	71.8	3.4	2.6	2.7	504.5	445.2	357.8	220.5	104.8	68.6	0.6	1.4	4.0	16.6	0.0	4.5	30.0	0.0	0.0	0.0
10	71.7	48.9	60.3	2.9	2.9	2.5	206.0	162.3	105.9	41.8	11.2	6.3	41.7	60.0	96.5	187.5	0.0	0.1	30.7	0.0	0.7	0.0
11	60.0	38.1	49.0	4.3	2.9	3.4	40.7	27.4	14.3	3.2	0.0	0.0	219.1	265.8	342.7	481.6	0.0	0.0	25.3	0.0	9.1	0.0
12	51.0	32.8	41.9	4.4	3.9	4.0	11.9	7.5	3.4	0.4	0.0	0.0	417.9	475.4	564.4	716.4	0.0	0.0	16.7	1.0	16.0	0.0
Summary	70.0	49.2	59.5	3.4	3.0	3.0	3481	3052	2453	1574	855	616	1785	2086	2582	3528	0.3	36.6	312.2	4.9	66.6	0.1

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	4.76	11.5	7.5	3.2	1.4	3.13	4.37	6.07
02	4.81	11.7	8.0	3.2	1.4	2.73	3.81	6.14
03	4.89	12.7	8.8	3.5	1.0	3.48	4.52	5.98
04	4.71	11.1	7.5	3.3	1.2	2.84	4.21	6.51
05	4.13	11.1	7.4	2.8	1.1	3.18	3.81	4.90
06	4.24	12.0	7.5	3.0	1.2	2.97	3.90	5.51
07	5.25	11.6	8.2	3.6	1.7	3.99	5.14	6.23
08	3.63	9.8	6.6	2.3	1.0	2.07	3.70	4.56
09	3.49	7.8	4.9	2.2	1.0	1.62	3.39	4.72
10	2.81	8.0	5.3	2.1	0.7	1.23	2.87	4.08
11	4.21	9.4	6.8	3.1	1.1	3.00	4.14	5.91
12	5.00	12.0	7.9	3.7	1.5	2.97	4.94	6.58
Summary	51.93	128.7	86.4	36.0	14.3	33.21	48.80	67.19

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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	1.7	1.2	0.7	0.1	0.0	0.0	1.7	0.2	0.1	0.0	0.0	1.1	2.1
02	1.4	1.3	0.6	0.2	0.0	0.0	0.8	0.1	0.1	0.0	0.0	0.3	1.7
03	0.9	0.7	0.2	0.1	0.0	0.0	0.3	0.2	0.2	0.1	0.0	0.0	0.6
04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
06	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
07	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
08	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
09	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.1	0.2	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
12	0.5	0.6	0.2	0.0	0.0	0.0	0.4	0.1	0.0	0.0	0.0	0.0	0.3
Summary	4.6	4.0	1.7	0.4	0.0	0.0	3.3	0.6	0.4	0.1	0.0	1.4	4.7

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U.S. Department of Commerce
 National Oceanic & Atmospheric Administration
 National Environmental Satellite, Data, and Information Service
 Current Location: Elev: 962 ft. Lat: 35.8181° N Lon: -83.9858° W
 Station: **KNOXVILLE MCGHEE TYSON AP, TN US USW00013891**

Summary of Monthly Normals 1991-2020

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National Centers for Environmental Information
 151 Patton Avenue
 Asheville, North Carolina 28801

Growing Degree Units (Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	112.8	151.8	348.7	588.9	864.9	1058.9	1194.9	1167.0	953.8	629.9	290.2	143.3
45	55.5	79.8	226.6	442.7	709.9	908.9	1040.0	1012.0	803.9	477.8	176.7	72.9
50	23.4	36.0	129.8	306.0	555.5	758.9	885.0	857.0	653.9	333.8	93.1	31.9
55	8.7	13.0	62.0	188.4	405.0	608.9	730.0	702.0	504.5	206.0	40.7	11.9
60	1.8	3.4	23.6	97.7	264.1	459.0	574.9	547.0	357.8	105.9	14.3	3.4
Growing Degree Units for Corn (Monthly)												
50/86	58.7	87.2	203.9	360.4	563.9	728.4	832.8	810.8	638.9	385.1	172.7	76.2

Growing Degree Units (Accumulated Monthly)												
Base	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	113	265	613	1202	2067	3126	4321	5488	6442	7072	7362	7505
45	56	135	362	805	1514	2423	3463	4475	5279	5757	5934	6007
50	23	59	189	495	1051	1810	2695	3552	4206	4539	4632	4664
55	9	22	84	272	677	1286	2016	2718	3222	3428	3469	3481
60	2	5	29	126	391	850	1424	1972	2329	2435	2450	2453
Growing Degree Units for Corn (Monthly Accumulated)												
50/86	59	146	350	710	1274	2002	2835	3646	4285	4670	4843	4919

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

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