

Summary of Monthly Normals
1991-2020

Generated on 06/04/2024

Current Location: Elev: 1454 ft. Lat: 35.6878° N Lon: 83.5372° W

Station: GATLINBURG 2 SW, TN US USC00403420

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	46.6	26.6	36.6	4.5	4.3	4.2	3.5	1.7	0.6	0.0	0.0	0.0	573.7	633.9	725.8	880.4	0.0	0.0	13.9	3.3	22.7	0.3
02	50.8	28.9	39.9	4.8	3.8	4.1	7.0	4.1	1.5	0.2	0.0	0.0	431.1	484.2	565.7	704.4	0.0	0.0	17.1	1.4	19.5	0.2
03	59.2	34.6	46.9	4.4	3.7	3.8	33.3	21.1	9.1	1.2	0.0	0.0	284.4	334.2	415.2	562.3	0.0	0.0	25.1	0.3	15.0	0.0
04	68.8	42.0	55.4	2.8	2.9	2.7	115.1	84.7	49.3	13.2	1.4	0.4	103.1	132.8	187.3	301.2	0.0	0.1	29.0	0.0	5.5	0.0
05	74.8	50.9	62.8	2.5	3.3	2.7	263.7	212.3	143.2	53.7	8.5	2.7	20.4	31.0	54.9	120.4	0.0	0.1	30.9	0.0	0.5	0.0
06	80.2	58.7	69.5	2.3	1.6	1.6	433.6	374.1	286.5	150.4	46.3	21.4	0.2	0.7	3.0	17.0	0.0	1.8	30.0	0.0	0.0	0.0
07	82.9	62.7	72.8	2.2	1.6	1.7	551.7	489.7	396.8	242.9	101.5	56.6	0.0	0.0	0.0	1.2	0.1	3.6	31.0	0.0	0.0	0.0
08	81.9	61.6	71.8	2.8	2.0	2.0	519.1	457.2	364.3	211.8	80.1	43.5	0.0	0.0	0.1	2.6	0.0	3.5	31.0	0.0	0.0	0.0
09	77.5	56.1	66.8	3.1	2.6	2.2	357.0	300.0	218.2	100.5	24.5	9.6	3.2	6.1	14.3	46.5	0.0	1.4	30.0	0.0	0.0	0.0
10	68.5	44.2	56.4	2.4	3.1	2.3	124.7	91.4	52.0	13.5	1.7	0.7	82.8	111.5	165.1	281.7	0.0	0.0	30.5	0.0	3.5	0.0
11	58.1	33.7	45.9	4.3	2.6	3.2	23.2	15.1	7.1	1.2	0.0	0.0	296.0	348.0	430.0	574.2	0.0	0.0	24.9	0.2	15.8	0.0
12	49.5	29.4	39.5	5.1	3.9	4.4	7.6	4.1	1.5	0.2	0.0	0.0	489.6	548.1	638.5	792.2	0.0	0.0	17.1	1.4	21.1	0.0
Summary	66.6	44.1	55.4	3.4	3.0	2.9	2439	2056	1530	789	264	135	2284	2630	3200	4284	0.1	10.5	310.5	6.6	103.6	0.5

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	4.75	15.1	9.5	3.1	1.2	3.11	4.75	5.90
02	4.27	14.5	9.6	3.1	0.8	3.14	3.98	5.26
03	5.58	14.7	10.3	4.5	1.4	3.94	5.07	7.19
04	4.93	12.5	8.9	3.6	1.1	3.59	5.16	6.16
05	5.50	14.8	10.3	3.5	1.3	3.78	5.23	7.02
06	5.99	15.1	10.8	4.3	1.8	4.18	5.85	7.36
07	6.31	15.4	10.7	4.7	1.9	5.08	6.15	7.32
08	4.40	13.8	9.4	3.0	1.0	2.83	4.81	5.77
09	4.34	10.9	7.3	3.1	1.3	3.02	4.06	5.35
10	3.19	9.9	5.9	2.2	0.9	1.56	3.35	4.47
11	4.02	11.6	7.5	2.7	1.0	2.76	3.79	5.57
12	4.92	15.2	9.6	3.5	1.3	3.30	4.85	6.64
Summary	58.20	163.5	109.8	41.3	15.0	40.29	57.05	74.01

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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	2.40	2.0	1.1	0.3	0.0	0.0	2.8	1.0	0.4	0.0	0.00	0.50	4.10
02	2.40	1.7	1.1	0.3	0.2	0.0	2.2	0.9	0.4	0.0	0.00	1.00	3.20
03	1.30	0.9	0.7	0.1	0.1	0.1	0.8	0.0	0.0	0.0	0.00	0.20	2.00
04	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
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	0.20	0.2	0.2	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.00	0.00	0.00
12	1.40	1.0	0.6	0.3	0.1	0.0	1.3	0.6	0.3	0.0	0.00	0.00	0.90
Summary	7.7	5.8	3.7	1.0	0.4	0.1	7.4	2.5	1.1	0.0	0.0	1.7	10.2

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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	87.6	106.3	258.5	466.9	708.3	883.4	1016.7	984.1	803.8	509.5	218.2	110.9
45	40.1	50.1	156.2	329.4	554.2	733.4	861.7	829.2	653.9	363.4	123.1	55.0
50	15.0	20.5	80.5	209.9	403.8	583.4	706.7	674.2	504.4	231.3	59.6	23.4
55	3.5	7.0	33.3	115.1	263.7	433.6	551.7	519.1	357.0	124.7	23.2	7.6
60	0.6	1.5	9.1	49.3	143.2	286.5	396.8	364.3	218.2	52.0	7.1	1.5
Growing Degree Units for Corn (Monthly)												
50/86	54.3	75.8	173.9	300.0	443.4	582.7	698.2	665.4	514.6	313.7	149.3	71.4

Growing Degree Units (Accumulated Monthly)												
40	88	194	452	919	1628	2511	3528	4512	5316	5825	6043	6154
45	40	90	246	576	1130	1863	2725	3554	4208	4572	4695	4750
50	15	36	116	326	730	1313	2020	2694	3198	3430	3489	3513
55	4	10	44	159	423	856	1408	1927	2284	2409	2432	2439
60	1	2	11	60	204	490	887	1251	1470	1522	1529	1530
Growing Degree Units for Corn (Monthly Accumulated)												
50/86	54	130	304	604	1047	1630	2328	2994	3508	3822	3971	4043

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

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