

Summary of Monthly Normals
1991-2020

Generated on 05/16/2024

Current Location: Elev: 1893 ft. Lat: 35.6031° N Lon: 83.7767° W

Station: TOWNSEND 5S, TN US USC00409065

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	47.0	25.6	36.3	4.3	4.4	4.2	5.7	3.3	1.2	0.1	0.0	0.0	585.3	644.9	735.8	889.7	0.0	0.0	13.1	4.2	24.2	0.4
02	50.5	28.7	39.6	4.9	4.2	4.3	8.5	5.5	2.4	0.2	0.0	0.0	439.6	492.6	573.5	711.4	0.0	0.0	15.8	2.1	19.4	0.2
03	58.8	34.5	46.6	4.7	3.3	3.8	32.6	21.3	9.8	1.3	0.0	0.0	291.3	342.1	423.7	570.1	0.0	0.0	24.3	0.5	13.6	0.0
04	68.6	42.9	55.7	3.0	2.7	2.7	123.9	92.9	55.5	16.2	2.2	0.6	101.5	130.4	183.1	293.7	0.0	0.0	28.8	0.0	4.5	0.0
05	73.6	51.2	62.4	2.8	3.4	2.9	252.6	202.4	134.1	46.9	6.4	2.0	23.2	35.0	59.7	127.5	0.0	0.0	30.8	0.0	0.5	0.0
06	78.9	59.2	69.1	2.2	1.7	1.7	421.5	362.0	274.0	138.2	41.4	20.0	0.1	0.6	2.6	16.7	0.0	0.5	30.0	0.0	0.0	0.0
07	81.5	62.7	72.1	2.0	1.6	1.6	530.0	468.1	375.1	222.5	87.5	47.3	0.0	0.0	0.0	2.5	0.0	1.4	31.0	0.0	0.0	0.0
08	80.6	61.3	70.9	2.7	2.5	2.2	494.4	432.5	339.6	188.9	65.7	35.1	0.0	0.1	0.2	4.5	0.0	2.0	31.0	0.0	0.0	0.0
09	76.8	55.8	66.3	2.8	2.5	2.2	344.7	289.0	209.4	95.5	24.8	10.8	5.9	10.1	20.5	56.6	0.0	0.9	30.0	0.0	0.0	0.0
10	67.6	44.1	55.9	2.3	3.5	2.4	122.0	89.6	51.4	15.0	2.4	1.0	95.5	125.2	180.0	298.5	0.0	0.0	29.9	0.0	3.4	0.0
11	58.6	33.7	46.1	4.7	3.2	3.8	25.2	15.7	6.5	0.7	0.0	0.0	290.6	341.1	421.9	566.1	0.0	0.0	24.8	0.5	14.8	0.0
12	50.3	29.3	39.8	4.7	4.3	4.3	11.1	6.5	2.2	0.1	0.0	0.0	482.3	539.7	628.4	781.3	0.0	0.0	17.3	1.8	20.7	0.0
Summary	66.1	44.1	55.1	3.4	3.1	3.0	2372	1989	1461	726	230	117	2315	2662	3229	4319	0.0	4.8	306.8	9.1	101.1	0.6

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	5.61	13.6	8.3	3.6	1.4	4.08	5.14	7.08	
02	4.91	13.4	8.9	3.6	1.0	3.05	4.57	6.36	
03	5.25	14.0	9.4	3.7	1.1	3.43	5.28	6.64	
04	5.21	12.5	8.9	3.9	1.3	3.93	4.80	6.34	
05	5.06	13.8	8.8	3.4	1.4	3.85	4.85	6.20	
06	5.52	14.6	9.9	4.0	1.5	4.06	5.04	6.43	
07	6.07	15.8	10.3	4.8	2.1	4.13	6.49	7.79	
08	4.41	13.6	8.6	3.5	1.1	3.32	4.12	5.26	
09	4.95	10.0	6.7	3.2	1.7	3.47	5.08	6.25	
10	3.30	10.4	6.2	2.7	1.0	1.62	2.75	4.98	
11	4.39	10.7	7.1	3.2	1.2	2.98	4.36	5.97	
12	5.64	14.4	8.8	4.3	1.9	4.42	5.90	7.35	
Summary	60.32	156.8	101.9	43.9	16.7	42.34	58.38	76.65	

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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	3.20	2.0	1.2	0.3	0.1	0.0	3.3	0.9	0.4	0.0	0.50	2.20	5.80
02	3.50	2.1	1.1	0.4	0.2	0.0	2.3	0.9	0.4	0.0	0.30	1.30	4.50
03	0.90	0.7	0.5	0.0	0.0	0.0	0.7	0.1	0.0	0.0	0.00	0.00	1.60
04	0.20	0.1	0.1	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	0.30	0.3	0.1	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.00	0.00	0.00
12	1.30	1.2	0.8	0.2	0.1	0.0	1.4	0.6	0.3	0.0	0.00	0.30	1.30
Summary	9.4	6.4	3.8	0.9	0.4	0.0	8.2	2.5	1.1	0.0	0.8	3.8	13.2

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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	90.6	108.6	254.5	478.0	694.9	871.3	994.9	959.3	788.7	495.0	225.7	125.7
45	45.5	54.9	152.2	342.0	540.7	721.4	840.0	804.3	638.9	352.3	128.0	68.1
50	18.7	23.6	78.0	221.0	391.4	571.4	685.0	649.4	490.0	225.6	63.3	30.9
55	5.7	8.5	32.6	123.9	252.6	421.5	530.0	494.4	344.7	122.0	25.2	11.1
60	1.2	2.4	9.8	55.5	134.1	274.0	375.1	339.6	209.4	51.4	6.5	2.2
Growing Degree Units for Corn (Monthly)												
50/86	57.3	73.6	165.0	301.4	428.1	570.0	678.4	642.7	502.0	302.2	153.5	78.0

Growing Degree Units (Accumulated Monthly)												
40	91	199	454	932	1627	2498	3493	4452	5241	5736	5961	6087
45	46	100	253	595	1135	1857	2697	3501	4140	4492	4620	4688
50	19	42	120	341	733	1304	1989	2638	3128	3354	3417	3448
55	6	14	47	171	423	845	1375	1869	2214	2336	2361	2372
60	1	4	13	69	203	477	852	1192	1401	1453	1459	1461
Growing Degree Units for Corn (Monthly Accumulated)												
50/86	57	131	296	597	1025	1595	2274	2916	3418	3721	3874	3952

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

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