

Local Climatological Data
Daily Summary
December 2020

Current Location: Elev: 962 ft. Lat: 35.8181° N Lon: -83.9858° W

Generated on 03/09/2021

Station: **KNOXVILLE AIRPORT, TN US WBAN: 72326013891 (KTYS)**

Date	Temperature (F)							Degree Days (base 65F)		Sun (LST)		Weather	Precipitation (in)			Pressure (inHg)		Wind	Maximum Wind Speed = MPH					
	Max	Min	Avg	Dep	ARH	ADP	AWB	Heat	Cool	Rise	Set		TLC	Snow Fall	Snow Depth	Avg Stn	Avg SL		Avg Speed	Direction = Degrees				
																		Peak Speed		Peak Dir	Sust. Speed	Sust. Dir		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23		
01	36	24	30	-14.3	75	24	28	35	0	0728	1722	SN	T	T	0	29.01	30.11	9.7	33	240	21	270		
02	45	21	33	-11.0	71	23	29	32	0	0729	1722		0.00	0.0	0	29.27	30.36	2.3	14	040	9	030		
03	54	23	39	-4.7	70	28	34	26	0	0730	1722		0.00	0.0	0	29.23	30.28	2.0	10	100	8	090		
04	45	38	42	-1.4	87	39	41	23	0	0731	1722	RA BR	0.54	0.0	0	28.95	30.06	5.1	27	260	21	260		
05	51	34	43	-0.1	77	35	39	22	0	0732	1722		T	0.0	0	29.04	30.09	3.8	22	260	16	260		
06	52	28	40	-2.8	84	37	39	25	0	0733	1722	RA BR HZ FG	0.04	0.0	0	28.92	29.97	1.7	10	300	8	270		
07	45	35	40	-2.5	77	33	37	25	0	0733	1722		T	0.0	0	28.82	29.90	6.9	23	310	17	320		
08	41	29	35	-7.3	63	22	30	30	0	0734	1722		0.00	0.0	0	29.05	30.13	4.6	17	330	12	350		
09	55	25	40	-2.0	74	31	36	25	0	0735	1722		0.00	0.0	0	29.02	30.08	5.1	23	220	17	230		
10	63	31	47	5.2	73	37	42	18	0	0736	1723		0.00	0.0	0	29.03	30.10	1.1	10	030	7	030		
11	63	32	48	6.5	73	39	44	17	0	0736	1723		0.00	0.0	0	29.05	30.10	1.2	11	310	9	300		
12	66*	41	54	12.7	83	49	51	11	0	0737	1723	RA BR	0.04	0.0	0	28.93	29.97	8.4	33	220	25	220		
13	59	48	54	13.0	85	47	50	11	0	0738	1723	RA BR FG	0.04	0.0	0	29.00	30.04	5.3	13	240	10	010		
14	48	36	42	1.2	85	38	40	23	0	0739	1724	RA BR	1.26	0.0	0	28.96	30.05	10.5	29	360	21	010		
15	48	30	39	-1.6	78	31	35	26	0	0739	1724		0.00	0.0	0	29.09	30.14	5.5	16	020	13	080		
16	42	36	39	-1.4	96	39	40	26	0	0740	1724	RA BR	0.31	0.0	0	28.87	29.92	5.4	22	270	16	270		
17	39	32	36	-4.2	80	30	33	29	0	0741	1725		0.00	0.0	0	29.03	30.12	8.1	30	270	17	290		
18	42	27	35	-5.0	69	25	31	30	0	0741	1725		0.00	0.0	0	29.31	30.39	4.7	16	020	13	030		
19	44	25	35	-4.9	80	29	33	30	0	0742	1725		0.00	0.0	0	29.23	30.28	1.8	8	030	7	350		
20	46	37	42	2.3	90	38	40	23	0	0742	1726	RA	0.02	0.0	0	28.98	30.04	2.1	10	120	7	310		
21	54	34	44	4.5	78	39	42	21	0	0743	1726	FG BR	0.00	0.0	0	28.92	30.09	12.3	33	220	26	220		
22	53	32	43	3.6	57	28	37	22	0	0743	1727		0.00	0.0	0	29.12	30.21	5.8	18	220	14	220		
23	60	27	44	4.8	63	31	38	21	0	0744	1728	RA	T	0.0	0	29.10	30.14	4.6	44	170	31	180		
24	61	26	44	4.9	80	38	42	21	0	0744	1728	RA SN PL BR FG	1.45	2.8	3	28.74	29.83	13.4	46	180	32	180		
25	26	14	20	-19.0	76	16	20	45	0	0744	1729	SN BR FG	0.02	0.4	2	28.92	30.04	10.7	28	230	22	230		
26	38	11*	25	-13.9	79	17	21	40	0	0745	1729		0.00	0.0	1	29.11	30.20	3.1	14	200	12	230		
27	47	19	33	-5.7	84	27	29	32	0	0745	1730		0.00	0.0	T	29.10	30.19	3.1			7	340		
28	51	30	41	2.4	87	38	40	24	0	0745	1731	BR FG	0.01	0.0	0	29.18	30.26	4.7	20	210	15	220		
29	51	31	41	2.5	80	35	38	24	0	0746	1731	BR FG	0.00	0.0	0	29.32	30.38	6.3	18	030	15	030		
30	62	30	46	7.5	80	39	43	19	0	0746	1732		0.00	0.0	0	29.16	30.20	7.8	34	200	25	210		
31	55	45	50	11.6	92	48	49	15	0	0746	1733	RA BR	0.01	0.0	0	29.05	30.13	5.3	15	010	12	020		
Monthly Averages Totals													3.74	3.2		29.05	30.11	5.6						
Departure from Normal (1981-2010)													-0.76											

Degree Days				Number of days with...													
Monthly		Season-to-date		Temperature				Precipitation		Snow	Weather						
Total	Departure	Total	Departure	Max		Min											
Heating	Cooling	>=90°	<=32°	<=32°	<=0°	>=0.01"	>=0.1"	>=1"	T-Storms	Heavy Fog							
777	0	25	1597	0	1	21	0	11	4	1							
Date of 5-sec to 3-sec wind equipment change				Sea Level Pressure				Greatest...									
2007-04-17				Maximum		30.50		Date		29		Time		1023			
				Minimum		29.58				24		1353		24-Hr... Precip		1.47	
														Snowfall		2.8	
								Date				24-25		24-24		24	
Station Augmentation												Name:CONTRACTOR ON AIRPORT Lat: N/A Lon: N/A Elevation: N/A Distance: 2200ft W Elements: TEMP, PRECIP, SNOW Equipment: SRG, PSY, SNOWBOARD, SNOWSTICK					

Local Climatological Data
Hourly Observations
December 2020

Current Location: Elev: 962 ft. Lat: 35.8181° N Lon: -83.9858° W

Generated on 03/09/2021

Station: KNOXVILLE AIRPORT, TN US WBAN: 72326013891 (KTYS)

Date	Time (LST)	Station Type	Sky Conditions	Visi- bility	Weather Type (see documentation)	Dry Bulb Temp		Wet Bulb Temp		Dew Point Temp		Rel Hum %	Wind Speed (MPH)	Wind Dir (Deg)	Wind Gusts (MPH)	Station Press (inHg)	Press. Tend	Net 3-Hr Change (inHg)	Sea Level Press. (inHg)	Report Type	Precip Total (in)	Alti- meter Setting (inHg)
						AU AW MW	(F)	(C)	(F)	(C)	(F)											
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
01	0053	7	FEW:02 22 BKN:07 75 BKN:07 110	10.00		32	0.0	30	-1.1	28	-2.2	85	14	260		28.89	1	-0.04	29.96	FM-15	0.00	29.94
01	0100	4	26	9.94		32	0.0	30	-1.1	28	-2.2	85	14	260		28.88	1	-0.04	29.96	FM-12		29.94
01	0153	7	FEW:02 26 BKN:07 35 OVC:08 70	10.00		32	0.0	30	-1.1	27	-2.8	82	16	270	26	28.90			29.96	FM-15	0.00	29.95
01	0242	7	BKN:07 22 BKN:07 38 OVC:08 45	10.00	-SN:03 SN	32	0.0	30	-1.1	26	-3.3	79	11	270	24	28.91				FM-16	T	29.96
01	0253	7	BKN:07 22 OVC:08 44	9.00	-SN:03 SN	32	0.0	30	-1.1	26	-3.3	79	14	290	22	28.91			29.97	FM-15	T	29.96
01	0353	7	OVC:08 22	9.00	-SN:03 SN	32	0.0	30	-1.1	27	-2.8	82	8	260		28.93	3	-0.03	29.99	FM-15	T	29.98
01	0400	4	26	8.70		32	0.0	30	-1.1	27	-2.8	82	8	260		28.92	3	-0.03	29.99	FM-12		29.98
01	0453	7	SCT:04 20 BKN:07 25 OVC:08 32	9.00	-SN:03 SN	31	-0.6	29	-1.7	26	-3.3	82	14	260		28.93			30.00	FM-15	T	29.98
01	0504	7	SCT:04 23 BKN:07 33 OVC:08 40	9.00	-SN:03 SN	31	-0.6	29	-1.7	26	-3.3	82	15	250	21	28.94				FM-16	T	29.99
01	0529	7	FEW:02 19 BKN:07 26 OVC:08 42	9.00	-SN:03 SN	31	-0.6	29	-1.7	26	-3.3	82	11	260		28.95				FM-16	T	30.00
01	0551	6	FEW:02 20 SCT:04 25 OVC:08 37	9.00	-SN:03 SN	30	-1.1	28	-2.2	25	-3.9	80	13	260		28.95				FM-16		30.00
01	0553	7	SCT:04 22 SCT:04 28 OVC:08 37	9.00	-SN:03 SN	31	-0.6	29	-1.7	25	-3.9	79	13	260	22	28.95			30.02	FM-15	T	30.00
01	0641	7	BKN:07 25 BKN:07 33 OVC:08 40	9.00	-SN:03 SN	31	-0.6	29	-1.7	25	-3.9	79	14	260		28.97				FM-16	T	30.02
01	0653	7	BKN:07 25 OVC:08 32	9.00	-SN:03 SN	31	-0.6	29	-1.7	25	-3.9	79	10	260		28.98	3	-0.05	30.04	FM-15	T	30.03
01	0700	4	26	8.70		31	-0.6	29	-1.7	25	-3.9	79	10	260		28.97	3	-0.05	30.04	FM-12		30.03
01	0753	7	BKN:07 25 OVC:08 30	9.00	-SN:03 SN	31	-0.6	28	-2.2	24	-4.4	76	11	260		29.00			30.06	FM-15	T	30.05
01	0853	7	OVC:08 21	10.00		31	-0.6	28	-2.2	24	-4.4	76	10	260		29.02			30.09	FM-15	T	30.07
01	0953	7	OVC:08 21	9.00		31	-0.6	28	-2.2	24	-4.4	76	11	270		29.05	3	-0.06	30.11	FM-15	T	30.10
01	1000	4	26	8.70		31	-0.6	28	-2.2	24	-4.4	76	11	270		29.04	3	-0.06	30.11	FM-12		30.10
01	1053	7	OVC:08 22	10.00		32	0.0	29	-1.7	25	-3.9	75	13	240		29.07			30.13	FM-15	0.00	30.12
01	1153	7	BKN:07 26 OVC:08 31	10.00		33	0.6	30	-1.1	24	-4.4	70	10	260		29.07			30.14	FM-15	0.00	30.12
01	1253	7	OVC:08 27	10.00		33	0.6	30	-1.1	25	-3.9	72	13	240		29.06	0	-0.01	30.12	FM-15	0.00	30.11
01	1337	7	BKN:07 31	10.00		33	0.6	29	-1.7	23	-5.0	66	9	270		29.05				FM-16		30.10
01	1353	7	BKN:07 30	10.00		33	0.6	30	-1.1	24	-4.4	70	9	260		29.05			30.12	FM-15	0.00	30.10
01	1453	7	OVC:08 34	10.00		34	1.1	30	-1.1	23	-5.0	64	10	250		29.05			30.11	FM-15	0.00	30.10
01	1553	7	BKN:07 38	10.00		35	1.7	30	-1.1	22	-5.6	59	11	270		29.05	5	0.00	30.12	FM-15	0.00	30.10
01	1600	4	41	9.94		35	1.7	30	-1.1	22	-5.6	59	11	270		29.04	5	0.00	30.12	FM-12		30.10
01	1653	7	SCT:04 38	10.00		34	1.1	30	-1.1	23	-5.0	64	10	270		29.07			30.14	FM-15	0.00	30.12
01	1753	7	FEW:02 38	10.00		32	0.0	28	-2.2	21	-6.1	64	9	280		29.10			30.16	FM-15	0.00	30.15
01	1853	7	BKN:07 35	10.00		32	0.0	28	-2.2	22	-5.6	66	6	290		29.13	3	-0.07	30.19	FM-15	0.00	30.18

01	1900	4	41	9.94		32	0.0	28	-2.2	22	-5.6	66	6	290		29.12	3	-0.07	30.19	FM-12		30.18
01	1953	7	FEW:02 35	10.00		31	-0.6	28	-2.2	21	-6.1	67	8	280		29.15			30.23	FM-15	0.00	30.21
01	2053	7	FEW:02 35	10.00		29	-1.7	26	-3.3	21	-6.1	72	3	190		29.16			30.24	FM-15	0.00	30.22
01	2153	7	FEW:02 30	10.00		26	-3.3	24	-4.4	21	-6.1	81	3	160		29.16	1	-0.04	30.24	FM-15	0.00	30.22
01	2200	4	26	9.94		26	-3.3	24	-4.4	21	-6.1	81	3	160		29.15	1	-0.04	30.24	FM-12		30.22
01	2253	7	FEW:02 35	10.00		27	-2.8	25	-3.9	22	-5.6	81	0	000		29.18			30.25	FM-15	0.00	30.23
01	2353	7	CLR:00	10.00		25	-3.9	24	-4.4	22	-5.6	88	3	170		29.19			30.27	FM-15	0.00	30.25

U.S. Department of Commerce
 National Oceanic & Atmospheric Administration
 National Environmental Satellite, Data, and Information Service

Local Climatological Data
Hourly Remarks
December 2020

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

Current Location: Elev: 962 ft. Lat: 35.8181° N Lon: -83.9858° W

Generated on 03/09/2021

Station: **KNOXVILLE AIRPORT, TN US WBAN: 72326013891 (KTYS)**

Date	Time (LST)	Remarks
01	0053	MET14412/01/20 00:53:02 METAR KTYS 010553Z 26012KT 10SM FEW022 BKN075 BKN110 00/M02 A2994 RMK AO2 SLP144 4/001 60003 T00001022 10006 20000 51012 (JTD)
01	0100	SYN09272326 12566 62612 10000 21022 39781 40144 51012 69981 90553 333 10061 20000 4/003 555 90106=
01	0153	MET13512/01/20 01:53:02 METAR KTYS 010653Z 27014G23KT 10SM FEW026 BKN035 OVC070 00/M03 A2995 RMK AO2 PK WND 24029/0602 SLP145 T00001028 (JTD)
01	0242	MET12612/01/20 02:42:02 SPECI KTYS 010742Z 27010G21KT 10SM -SN BKN022 BKN038 OVC045 00/M03 A2996 RMK AO2 SNB42 P0000 T00001033 (JTD)
01	0253	MET12512/01/20 02:53:02 METAR KTYS 010753Z 29012G19KT 9SM -SN BKN022 OVC044 00/M03 A2996 RMK AO2 SNB42 SLP150 P0000 T00001033 (JTD)
01	0353	MET12112/01/20 03:53:02 METAR KTYS 010853Z 26007KT 9SM -SN OVC022 00/M03 A2998 RMK AO2 SLP157 P0000 60000 T00001028 53010 (JTD)
01	0400	SYN07672326 11564 82607 10000 21028 39794 40157 53010 69907 771// 90853 555 90109=
01	0453	MET12412/01/20 04:53:02 METAR KTYS 010953Z 26012KT 9SM -SN SCT020 BKN025 OVC032 M01/M03 A2998 RMK AO2 SLP159 P0000 T10061033 (JTD)
01	0504	MET12012/01/20 05:04:02 SPECI KTYS 011004Z 25013G18KT 9SM -SN SCT023 BKN033 OVC040 M01/M03 A2999 RMK AO2 P0000 T10061033 (JTD)
01	0529	MET11712/01/20 05:29:02 SPECI KTYS 011029Z 26010KT 9SM -SN FEW019 BKN026 OVC042 M01/M03 A3000 RMK AO2 P0000 T10061033 (JTD)
01	0551	MET11212/01/20 05:51:02 SPECI KTYS 011051Z 26011KT 9SM -SN FEW020 SCT025 OVC037 M01/M04 A3000 RMK AO2 P0000 FIBI (JTD)
01	0553	MET12712/01/20 05:53:02 METAR KTYS 011053Z 26011G19KT 9SM -SN SCT022 SCT028 OVC037 M01/M04 A3000 RMK AO2 SLP166 P0000 T10061039 (JTD)
01	0641	MET11712/01/20 06:41:02 SPECI KTYS 011141Z 26012KT 9SM -SN BKN025 BKN033 OVC040 M01/M04 A3002 RMK AO2 P0000 T10061039 (JTD)
01	0653	MET14712/01/20 06:53:02 METAR KTYS 011153Z 26009KT 9SM -SN BKN025 OVC032 M01/M04 A3003 RMK AO2 SLP174 P0000 60000 70012 T10061039 10006 21006 53017 (JTD)
01	0700	SYN09872326 11564 82609 11006 21039 39810 40174 53017 69901 771// 91153 333 10094 21006 70030 555 90112=
01	0753	MET11712/01/20 07:53:02 METAR KTYS 011051Z 26010KT 9SM -SN BKN025 OVC030 M01/M04 A3005 RMK AO2 SLP181 P0000 T10061044 (JTD)
01	0853	MET11212/01/20 08:53:02 METAR KTYS 011353Z 26009KT 10SM OVC021 M01/M04 A3007 RMK AO2 SNE16 SLP190 P0000 T10061044 (MB)
01	0953	MET12612/01/20 09:53:02 METAR KTYS 011453Z 27010KT 9SM OVC021 M01/M04 A3010 RMK AO2 SNB41E51 SLP197 P0000 60000 T10061044 53022 (MB)
01	1000	SYN07072326 12564 82710 11006 21044 39833 40197 53022 69907 91453 555 90115=
01	1053	MET09912/01/20 10:53:02 METAR KTYS 011553Z 24011KT 10SM OVC022 00/M04 A3012 RMK AO2 SLP204 T00001039 (MB)
01	1153	MET10612/01/20 11:53:02 METAR KTYS 011653Z 26009KT 10SM BKN026 OVC031 01/M04 A3012 RMK AO2 SLP205 T00061044 (MB)
01	1253	MET12312/01/20 12:53:02 METAR KTYS 011753Z 24011KT 10SM OVC027 01/M04 A3011 RMK AO2 SLP201 60000 T00061039 10006 21006 50003 (MB)
01	1337	MET09212/01/20 13:37:02 SPECI KTYS 011837Z 27008KT 10SM BKN031 01/M05 A3010 RMK AO2 T00061050 (MB)
01	1353	MET09912/01/20 13:53:02 METAR KTYS 011853Z 26008KT 10SM BKN030 01/M04 A3010 RMK AO2 SLP200 T00061044 (MB)
01	1453	MET09912/01/20 14:53:02 METAR KTYS 011953Z 25009KT 10SM OVC034 01/M05 A3010 RMK AO2 SLP198 T00111050 (MB)
01	1553	MET10512/01/20 15:53:02 METAR KTYS 012053Z 27010KT 10SM BKN038 02/M06 A3010 RMK AO2 SLP200 T00171056 55001 (MB)
01	1600	SYN06472326 32666 62710 10017 21056 39833 40200 55001 92053 555 90121=
01	1653	MET10012/01/20 16:53:02 METAR KTYS 012153Z 27009KT 10SM SCT038 01/M05 A3012 RMK AO2 SLP206 T00111050 (ALG)
01	1753	MET10012/01/20 17:53:02 METAR KTYS 012253Z 28008KT 10SM FEW038 00/M06 A3015 RMK AO2 SLP215 T00001061 (ALG)
01	1853	MET11812/01/20 18:53:02 METAR KTYS 012353Z 29005KT 10SM BKN035 00/M06 A3018 RMK AO2 SLP225 T00001056 10022 21006 53025 (ALG)
01	1900	SYN07472326 32666 62905 10000 21056 39860 40225 53025 92353 333 21006 555 90200=
01	1953	MET09512/01/20 19:53:01 METAR KTYS 020053Z 28007KT 10SM FEW035 M01/M06 A3021 RMK AO2 SLP236 T10061061
01	2053	MET09512/01/20 20:53:01 METAR KTYS 020153Z 19003KT 10SM FEW035 M02/M06 A3022 RMK AO2 SLP240 T10171061
01	2153	MET10112/01/20 21:53:01 METAR KTYS 020253Z 16003KT 10SM FEW030 M03/M06 A3022 RMK AO2 SLP241 T10331061 51014
01	2200	SYN06472326 32566 21603 11033 21061 39873 40241 51014 90253 555 90203=
01	2253	MET09512/01/20 22:53:01 METAR KTYS 020353Z 00000KT 10SM FEW035 M03/M06 A3023 RMK AO2 SLP244 T10281056
01	2353	MET10212/01/20 23:53:02 METAR KTYS 020453Z 17003KT 10SM CLR M04/M06 A3025 RMK AO2 SLP252 T10391056 400221044

Local Climatological Data
Hourly Precipitation
December 2020

Generated on 03/09/2021

Date	For Hour (LST) Ending at																						Date		
	1 AM	2 AM	3 AM	4 AM	5 AM	6 AM	7 AM	8 AM	9 AM	10 AM	11 AM	NOON	1 PM	2 PM	3 PM	4 PM	5 PM	6 PM	7 PM	8 PM	9 PM	10 PM		11 PM	MID
01			T	T	T	T	T	T	T	T														01	
02																									02
03																									03
04									T	0.02s	0.03	0.02	0.04	0.14	0.09	0.09	0.05	0.01	0.05	T	T			04	
05	T																							05	
06																							0.01	0.03	06
07	T																								07
08																									08
09																									09
10																									10
11																									11
12						T	T							T	T	0.01	0.01	0.01	T	0.01					12
13																								0.04	13
14	0.12	0.05	0.29	0.31	0.21	0.20	0.03	0.02	0.03	T															14
15																									15
16		0.01	0.01	T		T	0.01	0.02	T	0.01		T	0.06	0.09	0.01	0.02	0.03	0.01	T	T	0.01	T	0.02	T	16
17																									17
18																									18
19																									19
20			T	T	T	0.01	T	T	0.01	T															20
21																									21
22																									22
23																									23
24	T	T	T	T	0.08	0.16	0.25	0.15	0.15	0.18	0.04	0.03	0.01	0.02	0.03	0.13	0.14	0.07	0.01	T	T	T	T	T	24
25		0.02	T			T		T	T		T	T	T		T	T	T	T	T						25
26																									26
27																									27
28							0.01																		28
29																									29
30																									30
31								T	0.01																31

Maximum Short Duration Precipitation

Time Period (Minutes)	5	10	15	20	30	45	60	80	100	120	150	180
Precipitation (inches)	0.05	0.09	0.12	0.15	0.21	0.27	0.33	0.44	0.56	0.63	0.71	0.86
Ending Date Time (yyyy-mm-dd hh:mi)	2020-12-14 03:41	2020-12-14 03:45	2020-12-14 03:50	2020-12-14 03:56	2020-12-14 04:01	2020-12-14 04:04	2020-12-14 03:50	2020-12-14 03:56	2020-12-14 04:01	2020-12-14 04:16	2020-12-14 04:57	2020-12-14 05:16

Hourly, daily, and monthly totals on the Daily Summary page and the Hourly Precipitation Table are shown as reported by the instrumentation at the site. However, NWS does not edit hourly values for its ASOS sites, but may edit the daily and monthly totals for selected sites which will be reflected on the Daily Summary page.

T = Trace
 s = Suspect
 * = Erroneous
 blank = No precipitation observed
 M = Missing