

Local Climatological Data
Daily Summary
October 2020

Generated on 03/09/2021

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	74	52	63	-2.1	66	48	54	2	0	0632	1819		0.00	0.0	0	28.97	30.01	5.9	23	260	17	260						
02	66	44	55	-9.7	70	44	49	10	0	0632	1817		0.00	0.0	0	29.07	30.12	3.8	17	050	13	010						
03	70	43	57	-7.3	75	48	52	8	0	0633	1816	BR FG	0.00	0.0	0	29.11	30.15	2.3	14	290	10	280						
04	72	47	60	-3.9	75	52	56	5	0	0634	1814	BR FG	0.00	0.0	0	29.09	30.12	3.6	20	240	14	250						
05	72	50	61	-2.6	74	51	55	4	0	0635	1813		0.00	0.0	0	29.12	30.16	4.0	14	020	10	050						
06	76	46	61	-2.2	78	55	58	4	0	0636	1811	BR FG	0.00	0.0	0	29.08	30.11	2.7	19	240	12	220						
07	79	53	66	3.2	73	56	60	0	1	0636	1810	FG	0.00	0.0	0	29.03	30.05	3.8	19	210	14	230						
08	80	53	67	4.5	79	60	62	0	2	0637	1809		0.00	0.0	0	29.05	30.09	2.4	9	010	7	010						
09	71	63	67	4.9	90	63	64	0	2	0638	1807	RA BR	T	0.0	0	29.07	30.10	3.6	13	020	10	020						
10	69	63	66	4.3	96	65	65	0	1	0639	1806	RA BR	1.96	0.0	0	28.97	29.98	8.9	21	030	15	030						
11	72	63	68	6.6	94	67	68	0	3	0640	1805	RA BR FG	0.18	0.0	0	28.76	29.82	5.2	17	030	14	030						
12	77	63	70	8.9	90	67	68	0	5	0641	1803	RA DZ BR FG	0.01	0.0	0	28.83	29.87	5.5	16	270	13	250						
13	72	52	62	1.3	72	53	57	3	0	0642	1802		0.00	0.0	0	28.99	30.05	6.7	20	340	15	020						
14	77	44	61	0.6	78	51	54	4	0	0642	1801	FG BR	0.00	0.0	0	29.02	30.05	2.6	14	240	10	230						
15	79	50	65	4.9	73	55	59	0	0	0643	1759		0.00	0.0	0	28.92	29.96	8.0	32	220	23	230						
16	63	42	53	-6.7	69	44	49	12	0	0644	1758	RA	0.04	0.0	0	29.13	30.17	6.7	27	360	18	350						
17	64	35*	50	-9.4	64	36	43	15	0	0645	1757	BR	0.00	0.0	0	29.23	30.29	4.3	21	050	16	040						
18	70	38	54	-5.1	74	44	49	11	0	0646	1755		0.00	0.0	0	29.20	30.25	2.4	12	140	9	330						
19	75	49	62	3.2	79	54	56	3	0	0647	1754		0.00	0.0	0	29.15	30.19	2.3	17	270	14	230						
20	75	51	63	4.5	84	56	58	2	0	0648	1753	FG BR	0.00	0.0	0	29.13	30.18	2.5	11	300	8	310						
21	80	50	65	6.9	80	58	60	0	0	0649	1752	FG BR	0.00	0.0	0	29.15	30.21	1.9	13	320	9	320						
22	82*	53	68	10.2	77	58	61	0	3	0650	1751	FG BR	0.00	0.0	0	29.12	30.16	2.3	10	320	7	310						
23	80	56	68	10.5	80	61	63	0	3	0650	1749	FG	0.00	0.0	0	29.04	30.07	2.5	17	230	14	230						
24	74	58	66	8.8	90	63	64	0	1	0651	1748	RA BR	1.32	0.0	0	28.97	29.98	5.4	15	010	13	010						
25	72	59	66	9.1	92	62	63	0	1	0652	1747	BR	0.00	0.0	0	28.92	29.95	3.3	10	060	7	210						
26	76	61	69	12.4	86	62	64	0	4	0653	1746	RA BR FG	T	0.0	0	29.04	30.06	5.5	18	190	14	360						
27	75	56	66	9.7	84	60	62	0	1	0654	1745		0.00	0.0	0	29.10	30.13	1.8	11	350	8	020						
28	67	63	65	9.0	99	65	65	0	0	0655	1744	RA BR	0.92	0.0	0	28.99	29.98	3.7	13	010	9	310						
29	80	58	69	13.4	80	62	65	0	4	0656	1743	RA BR	1.02	0.0	0	28.56	29.58	14.6	41	290	28	210						
30	58	42	50	-5.3	71	41	46	15	0	0657	1742		T	0.0	0	29.05	30.13	8.3	29	260	23	260						
31	64	38	51	-4.0	75	41	45	14	0	0658	1741		0.00	0.0	0	29.23	30.29	3.1	13	030	9	030						
	72.9	51.5	62.2										5.45			29.03	30.07	4.5										
	1.7	3.0	2.3										2.94															
Monthly Averages Totals																												
Departure from Normal (1981-2010)																												
Degree Days												Number of days with...																
Monthly				Season-to-date				Temperature				Precipitation			Snow		Weather											
Total		Departure		Total		Departure		Max		Min																		
Heating		115		-81		147		>=90°		<=32°		<=32°			<=0°			>=0.01"		>=0.1"		>=1"		T-Storms		Heavy Fog		
Cooling		28		-8		1591		0		0		0			0			7		5		0						
Date of 5-sec to 3-sec wind equipment change								Sea Level Pressure								Greatest...												
2007-04-17								Maximum				30.38				Date		31		Time		1053		24-Hr...			Snow Depth	
								Minimum				29.38										2.09			0.0			
																								Date				
																10-11												
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
October 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	CLR:00	10.00		58	14.4	55	12.8	52	11.1	81	7	260		28.97	0	-0.01	30.00	FM-15	0.00	30.02
01	0100	4		9.94		58	14.4	55	12.8	52	11.1	81	7	260		28.96	9	+0.01	30.00	FM-12		30.02
01	0153	7	CLR:00	10.00		55	12.8	53	11.7	51	10.6	87	0	000		28.96			29.99	FM-15	0.00	30.01
01	0253	7	CLR:00	10.00		55	12.8	53	11.7	52	11.1	90	0	000		28.95			29.98	FM-15	0.00	30.00
01	0353	7	CLR:00	10.00		53	11.7	52	11.1	51	10.6	93	0	000		28.94	6	+0.03	29.97	FM-15	0.00	29.99
01	0400	4		9.94		53	11.7	52	11.1	51	10.6	93	0	000		28.93	6	+0.03	29.97	FM-12		29.99
01	0453	7	CLR:00	10.00		53	11.7	52	11.1	51	10.6	93	0	000		28.94			29.97	FM-15	0.00	29.99
01	0553	7	CLR:00	10.00		53	11.7	52	11.1	52	11.1	96	0	000		28.95			29.98	FM-15	0.00	30.00
01	0653	7	FEW:02 60	10.00		53	11.7	52	11.1	52	11.1	96	0	000		28.96	3	-0.02	29.99	FM-15	0.00	30.01
01	0700	4	57	9.94		53	11.7	52	11.1	52	11.1	96	0	000		28.95	3	-0.02	29.99	FM-12		30.01
01	0753	7	FEW:02 100	10.00		58	14.4	56	13.3	54	12.2	87	5	220		28.97			30.00	FM-15	0.00	30.02
01	0853	7	FEW:02 100	10.00		63	17.2	58	14.4	54	12.2	73	8	250		28.98			30.01	FM-15	0.00	30.03
01	0953	7	FEW:02 250	10.00		65	18.3	59	15.0	54	12.2	68	8	250		28.98	1	-0.02	30.02	FM-15	0.00	30.03
01	1000	4		9.94		65	18.3	59	15.0	54	12.2	68	8	250		28.97	1	-0.02	30.02	FM-12		30.03
01	1053	7	FEW:02 35	10.00		67	19.4	60	15.6	55	12.8	66	6	290		28.99			30.01	FM-15	0.00	30.04
01	1153	7	FEW:02 32	10.00		70	21.1	61	16.1	54	12.2	57	13	220		28.98			30.01	FM-15	0.00	30.03
01	1253	7	BKN:07 37	10.00		71	21.7	61	16.1	54	12.2	55	7	240		28.97	8	+0.01	30.00	FM-15	0.00	30.02
01	1300	4	41	9.94		71	21.7	61	16.1	54	12.2	55	7	240		28.96	8	+0.01	30.00	FM-12		30.02
01	1353	7	SCT:04 50	10.00		73	22.8	60	15.6	50	10.0	44	14	270		28.95			29.98	FM-15	0.00	30.00
01	1453	7	SCT:04 50	10.00		72	22.2	56	13.3	42	5.6	34	18	260		28.94			29.97	FM-15	0.00	29.99
01	1553	7	SCT:04 50	10.00		71	21.7	56	13.3	42	5.6	35	14	240		28.94	6	+0.03	29.97	FM-15	0.00	29.99
01	1600	4	57	9.94		71	21.7	56	13.3	42	5.6	35	14	240		28.93	6	+0.03	29.97	FM-12		29.99
01	1653	7	SCT:04 50	10.00		70	21.1	54	12.2	40	4.4	34	13	280		28.95			29.98	FM-15	0.00	30.00
01	1753	7	SCT:04 50	10.00		67	19.4	54	12.2	41	5.0	39	7	320		28.97			30.00	FM-15	0.00	30.02
01	1853	7	FEW:02 50	10.00		63	17.2	52	11.1	42	5.6	47	8	310		28.98	3	-0.04	30.02	FM-15	0.00	30.03
01	1900	4	57	9.94		63	17.2	52	11.1	42	5.6	47	8	310		28.97	3	-0.04	30.02	FM-12		30.03
01	1953	7	FEW:02 50	10.00		62	16.7	51	10.6	41	5.0	46	5	300		29.01			30.04	FM-15	0.00	30.06
01	2053	7	FEW:02 50 FEW:02 90	10.00		59	15.0	51	10.6	44	6.7	58	3	330		29.02			30.05	FM-15	0.00	30.07
01	2153	7	FEW:02 50 FEW:02 90	10.00		54	12.2	50	10.0	47	8.3	77	0	000		29.02	1	-0.04	30.06	FM-15	0.00	30.07
01	2200	4	57	9.94		54	12.2	50	10.0	47	8.3	77	0	000		29.01	1	-0.04	30.06	FM-12		30.07
01	2253	7	FEW:02 90	10.00		56	13.3	50	10.0	45	7.2	67	5	330		29.04			30.07	FM-15	0.00	30.09
01	2353	7	CLR:00	10.00		55	12.8	49	9.4	42	5.6	62	3	340		29.04			30.07	FM-15	0.00	30.09

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

Local Climatological Data
Hourly Remarks
October 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	MET11410/01/20 00:53:02 METAR KTYS 010553Z 26006KT 10SM CLR 14/11 A3002 RMK AO2 SLP159 T01440111 10178 20144 50005 (JTD)
01	0100	SYN08072326 32966 02606 10144 20111 39807 40159 50005 90553 333 10200 20094 555 90106=
01	0153	MET09610/01/20 01:53:02 METAR KTYS 010653Z 00000KT 10SM CLR 13/11 A3001 RMK AO2 SLP156 T01280106 (JTD)
01	0253	MET09610/01/20 02:53:02 METAR KTYS 010753Z 00000KT 10SM CLR 13/11 A3000 RMK AO2 SLP152 T01280111 (JTD)
01	0353	MET10210/01/20 03:53:02 METAR KTYS 010853Z 00000KT 10SM CLR 12/11 A2999 RMK AO2 SLP150 T01170106 56009 (JTD)
01	0400	SYN06472326 32966 00000 10117 20106 39797 40150 56009 90853 555 90109=
01	0453	MET09610/01/20 04:53:02 METAR KTYS 010953Z 00000KT 10SM CLR 12/11 A2999 RMK AO2 SLP149 T01170106 (JTD)
01	0553	MET09810/01/20 05:53:02 METAR KTYS 011053Z 00000KT 10SM CLR 12/11 A3000 RMK AO2 SLP154 T01170111 \$ (JTD)
01	0653	MET11910/01/20 06:53:02 METAR KTYS 011153Z 00000KT 10SM FEW060 12/11 A3001 RMK AO2 SLP157 T01170111 10144 20111 53006 \$ (JTD)
01	0700	SYN08072326 32766 20000 10117 20111 39804 40157 53006 91153 333 10217 20111 555 90112=
01	0753	MET10010/01/20 07:53:02 METAR KTYS 011253Z 22004KT 10SM FEW100 14/12 A3002 RMK AO2 SLP160 T01440122 \$ (MB)
01	0853	MET10010/01/20 08:53:02 METAR KTYS 011353Z 25007KT 10SM FEW100 17/12 A3003 RMK AO2 SLP163 T01720122 \$ (MB)
01	0953	MET10610/01/20 09:53:02 METAR KTYS 011453Z 25007KT 10SM FEW250 18/12 A3003 RMK AO2 SLP165 T01830122 51008 \$ (MB)
01	1000	SYN06472326 32966 22507 10183 20122 39810 40165 51008 91453 555 90115=
01	1053	MET10010/01/20 10:53:02 METAR KTYS 011553Z 29005KT 10SM FEW035 19/13 A3004 RMK AO2 SLP164 T01940128 \$ (MB)
01	1153	MET10010/01/20 11:53:02 METAR KTYS 011653Z 22011KT 10SM FEW032 21/12 A3003 RMK AO2 SLP163 T02110122 \$ (MB)
01	1253	MET11810/01/20 12:53:02 METAR KTYS 011753Z 24006KT 10SM BKN037 22/12 A3002 RMK AO2 SLP159 T02170122 10222 20117 58004 \$ (MB)
01	1300	SYN08072326 32666 62406 10217 20122 39807 40159 58004 91753 333 10222 20117 555 90118=
01	1353	MET10010/01/20 13:53:02 METAR KTYS 011853Z 27012KT 10SM SCT050 23/10 A3000 RMK AO2 SLP152 T02280100 \$ (MB)
01	1453	MET10010/01/20 14:53:02 METAR KTYS 011953Z 26016KT 10SM SCT050 22/06 A2999 RMK AO2 SLP149 T02220056 \$ (MB)
01	1553	MET10710/01/20 15:53:02 METAR KTYS 012053Z 24012KT 10SM SCT050 22/06 A2999 RMK AO2 SLP149 T02170056 56011 \$ (ALG)
01	1600	SYN06472326 32766 42412 10217 20056 39797 40149 56011 92053 555 90121=
01	1653	MET10110/01/20 16:53:02 METAR KTYS 012153Z 28011KT 10SM SCT050 21/04 A3000 RMK AO2 SLP154 T02110044 \$ (ALG)
01	1753	MET10110/01/20 17:53:02 METAR KTYS 012253Z 32006KT 10SM SCT050 19/05 A3002 RMK AO2 SLP160 T01940050 \$ (ALG)
01	1853	MET11910/01/20 18:53:02 METAR KTYS 012353Z 31007KT 10SM FEW050 17/06 A3003 RMK AO2 SLP166 T01720056 10233 20172 53015 \$ (ALG)
01	1900	SYN08072326 32766 23107 10172 20056 39810 40166 53015 92353 333 10233 20111 555 90200=
01	1953	MET09510/01/20 19:53:01 METAR KTYS 020053Z 30004KT 10SM FEW050 17/05 A3006 RMK AO2 SLP173 T01670050 \$
01	2053	MET10210/01/20 20:53:01 METAR KTYS 020153Z 33003KT 10SM FEW050 FEW090 15/07 A3007 RMK AO2 SLP175 T01500067 \$
01	2153	MET10810/01/20 21:53:01 METAR KTYS 020253Z 00000KT 10SM FEW050 FEW090 12/08 A3007 RMK AO2 SLP178 T01220083 51013 \$
01	2200	SYN06472326 32766 20000 10122 20083 39823 40178 51013 90253 555 90203=
01	2253	MET09510/01/20 22:53:02 METAR KTYS 020353Z 33004KT 10SM FEW090 13/07 A3009 RMK AO2 SLP182 T01330072 \$
01	2353	MET10210/01/20 23:53:02 METAR KTYS 020453Z 34003KT 10SM CLR 13/06 A3009 RMK AO2 SLP183 T01280056 402330111 \$

Local Climatological Data
Hourly Precipitation
October 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	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																									01	
02																										02
03																										03
04																										04
05																										05
06																										06
07																										07
08																										08
09														T	T		T	T	T	T					T	09
10	T	0.03	0.01	0.14	0.17	0.28	0.01	0.04	T	0.54s	0.26		T			T	T	0.03	0.05	0.09	0.07	0.01	0.06	0.17	10	
11	0.13	0.01			T		0.03	T					T		T		0.01									11
12					0.01				T	T	T															12
13																										13
14																										14
15																										15
16				T	0.01	0.01	0.02	T																		16
17																										17
18																										18
19																										19
20																										20
21																										21
22																										22
23																										23
24		T	0.33	0.33	0.13	0.21	0.09	0.01														0.02	0.20			24
25																										25
26										T	T															26
27																										27
28							T	0.10	0.05	0.04	0.02	0.02	0.23	0.08	0.15				0.03	0.03	T	0.01	0.12	0.04	28	
29	0.01	0.03	0.08	0.04	0.27	0.33	0.20	0.05	T	0.01	T								T	T						29
30			T																							30
31																										31
Maximum Short Duration Precipitation																										
Time Period (Minutes)	5	10	15	20	30	45	60	80	100	120	150	180														
Precipitation (inches)	0.12	0.19	0.24	0.31	0.42	0.61	0.75	0.80	0.80	0.80	0.80	0.86														
Ending Date Time (yyyy-mm-dd hh:mi)	2020-10-24 02:39	2020-10-24 02:40	2020-10-10 09:49	2020-10-10 09:49	2020-10-10 10:08	2020-10-10 10:16	2020-10-10 10:16	2020-10-10 10:23	2020-10-10 10:23	2020-10-10 10:23	2020-10-10 10:23	2020-10-24 05:29														

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