

Local Climatological Data
Daily Summary
August 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	91	71	81	2.5	68	67	72	0	16	0544	1940	RA	T	0.0	0	28.86	29.87	10.3	37	230	26	230			
02	84	71	78	-0.4	65	63	68	0	13	0545	1939		0.00	0.0	0	28.94	29.96	7.8	19	240	15	270			
03	82	68	75	-3.4	77	67	69	0	10	0546	1938	TS RA BR	0.10	0.0	0	28.94	29.95	4.0	14	150	12	150			
04	86	68	77	-1.4	71	66	69	0	12	0547	1937		0.00	0.0	0	28.91	29.94	6.6	19	250	14	240			
05	88	67	78	-0.4	75	67	70	0	13	0547	1936	TS RA BR	1.17	0.0	0	28.98	29.99	4.9	23	360	18	350			
06	85	69	77	-1.4	80	69	71	0	12	0548	1935	TS RA BR	0.22	0.0	0	28.98	30.00	4.6	29	280	17	290			
07	89	69	79	0.6	72	68	71	0	14	0549	1934	BR HZ FG	0.00	0.0	0	29.03	30.05	2.5	14	340	8	360			
08	91	68	80	1.6	63	65	70	0	15	0550	1933		0.00	0.0	0	29.08	30.11	2.7	15	290	12	270			
09	92*	67	80	1.7	62	65	70	0	15	0550	1932		0.00	0.0	0	29.08	30.10	2.3	14	290	9	310			
10	83	69	76	-2.3	83	69	71	0	11	0551	1930	TS RA BR	0.73	0.0	0	29.05	30.05	3.0	36	340	23	350			
11	90	72	81	2.7	73	69	72	0	16	0552	1929		0.22	0.0	0	28.96	29.98	6.2	18	270	13	300			
12	91	70	81	2.7	70	69	72	0	16	0553	1928		0.00	0.0	0	28.97	29.98	3.5	13	170	9	040			
13	91	71	81	2.8	77	70	73	0	16	0554	1927	BR TS	0.00	0.0	0	28.96	29.97	4.0	28	150	22	150			
14	86	72	79	0.8	78	70	72	0	14	0554	1926		T	0.0	0	28.91	29.91	4.6	22	230	16	240			
15	82	70	76	-2.1	86	70	71	0	11	0555	1925	TS RA BR HZ	2.32	0.0	0	28.85	29.87	2.3	24	030	20	030			
16	89	69	79	0.9	69	68	72	0	14	0556	1923	TS RA BR FG	1.54	0.0	0	28.91	29.98	1.9	25	310	21	320			
17	86	68	77	-1.0	66	64	69	0	12	0557	1922	BR	0.00	0.0	0	28.97	29.98	2.8	15	320	12	010			
18	88	63*	76	-2.0	64	61	67	0	11	0558	1921		0.00	0.0	0	28.91	29.92	3.5	26	020	18	010			
19	82	67	75	-2.9	74	65	68	0	10	0558	1920		0.00	0.0	0	28.88	29.90	6.7	16	050	12	070			
20	86	67	77	-0.8	78	66	68	0	12	0559	1918	RA TS	0.01	0.0	0	28.91	29.92	4.2	22	140	16	140			
21	82	67	75	-2.7	83	67	69	0	10	0600	1917	TS RA BR	0.21	0.0	0	28.90	29.90	3.9	23	020	15	130			
22	85	67	76	-1.6	77	66	69	0	11	0601	1916	TS BR RA FG	T	0.0	0	28.92	29.96	2.8	22	210	17	210			
23	85	69	77	-0.5	78	68	70	0	12	0601	1915	RA BR	0.22	0.0	0	29.02	30.06	3.2	15	260	12	270			
24	87	69	78	0.6	75	69	72	0	13	0602	1913	BR FG	0.00	0.0	0	29.08	30.09	3.2	14	230	10	280			
25	87	72	80	2.8	82	70	72	0	15	0603	1912	TS RA	0.04	0.0	0	29.05	30.08	4.3	28	210	20	210			
26	88	68	78	0.9	80	71	73	0	13	0604	1911	BR FG	0.00	0.0	0	29.05	30.07	2.3	12	340	9	310			
27	88	72	80	3.1	81	73	75	0	15	0605	1909		0.00	0.0	0	29.00	30.01	3.2	18	240	15	240			
28	90	75	83	6.3	77	72	74	0	18	0605	1908		T	0.0	0	28.90	29.89	9.3	31	210	24	210			
29	86	72	79	2.5	81	71	73	0	14	0606	1906	RA BR	0.38	0.0	0	28.77	29.78	12.6	40	190	29	200			
30	87	70	79	2.7	78	70	72	0	14	0607	1905	TS RA BR	0.97	0.0	0	28.81	29.82	3.9	40	160	26	160			
31	85	70	78	1.9	84	72	73	0	13	0608	1904	RA BR	0.20	0.0	0	28.85	29.86	5.8	17	210	13	210			
	86.8	69.3	78.0										8.33			28.95	29.96	4.7							
	-1.0	1.5	0.2										5.06												

Monthly Averages Totals												8.33			28.95	29.96	4.7					
Departure from Normal (1981-2010)												5.06										
Degree Days						Number of days with...																
Monthly			Season-to-date			Temperature				Precipitation		Snow		Weather								
Total	Departure	Total	Departure	Max	Min	Precipitation		Snow		Weather												
Heating	0	0	0	>=90°	<=32°	<=32°	<=0°	>=0.01"	>=0.1"	>=1"	T-Storms	Heavy Fog										
Cooling	404	7	1356	7	0	0	0	14	12	0												
Date of 5-sec to 3-sec wind equipment change				Sea Level Pressure				Greatest...														
2007-04-17				Maximum		30.15	Date	24 <th colspan="2">Time</th> <td>1053 <th colspan="2">24-Hr...</th> </td>	Time		1053 <th colspan="2">24-Hr...</th>	24-Hr...										
				Minimum		29.72	Date	29	Time		0453	Precip	2.32	Snowfall	0.0							
							Date															
								15-15														
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
August 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	0051	6	BKN:07 28 OVC:08 130	10.00		73	22.8	71	21.7	70	21.1	89	0	000		28.86				FM-16		29.91
01	0053	7	BKN:07 28 OVC:08 130	10.00		73	22.8	71	21.7	70	21.1	90	0	000		28.86	6	+0.03	29.87	FM-15	0.00	29.91
01	0100	4	26	9.94		73	22.8	71	21.7	70	21.1	90	0	000		28.85	6	+0.03	29.87	FM-12		29.91
01	0153	7	SCT:04 25 BKN:07 32 BKN:07 50	10.00		73	22.8	71	21.7	70	21.1	90	0	000		28.84			29.85	FM-15	0.00	29.89
01	0253	7	BKN:07 47 OVC:08 130	10.00		72	22.2	71	21.7	70	21.1	94	0	000		28.84			29.85	FM-15	0.00	29.89
01	0353	7	BKN:07 30 OVC:08 60	10.00		73	22.8	71	21.7	70	21.1	90	0	000		28.85	5	0.00	29.86	FM-15	0.00	29.90
01	0400	4	26	9.94		73	22.8	71	21.7	70	21.1	90	0	000		28.84	5	0.00	29.86	FM-12		29.90
01	0453	7	FEW:02 26 BKN:07 45 OVC:08 65	10.00		72	22.2	71	21.7	70	21.1	94	3	010		28.86			29.87	FM-15	0.00	29.91
01	0553	7	FEW:02 50 FEW:02 130	10.00		71	21.7	70	21.1	69	20.6	94	3	040		28.87			29.89	FM-15	0.00	29.92
01	0653	7	FEW:02 70 SCT:04 250	10.00		74	23.3	72	22.2	71	21.7	91	0	000		28.88	3	-0.02	29.89	FM-15	0.00	29.93
01	0700	4	74	9.94		74	23.3	72	22.2	71	21.7	91	0	000		28.87	3	-0.02	29.89	FM-12		29.93
01	0753	7	FEW:02 35 FEW:02 250	10.00		77	25.0	73	22.8	71	21.7	82	0	000		28.88			29.89	FM-15	0.00	29.93
01	0853	7	FEW:02 35 FEW:02 250	10.00		80	26.7	74	23.3	71	21.7	74	8	190		28.88			29.89	FM-15	0.00	29.93
01	0953	7	FEW:02 30 FEW:02 70 SCT:04 250	10.00		83	28.3	73	22.8	69	20.6	63	15	190		28.88	0	0.00	29.89	FM-15	0.00	29.93
01	1000	4	26	9.94		83	28.3	73	22.8	69	20.6	63	15	190		28.87	9	0.00	29.89	FM-12		29.93
01	1053	7	SCT:04 40 SCT:04 250	10.00		86	30.0	74	23.3	68	20.0	55	17	200	29	28.87			29.88	FM-15	0.00	29.92
01	1153	7	SCT:04 55 SCT:04 250	10.00		86	30.0	73	22.8	67	19.4	53	17	200		28.86			29.88	FM-15	0.00	29.91
01	1253	7	SCT:04 45 BKN:07 65 BKN:07 250	10.00	-RA:02 RA RA	83	28.3	74	23.3	70	21.1	65	15	240		28.86	8	+0.02	29.87	FM-15	T	29.91
01	1300	4	41	9.94	RA	83	28.3	74	23.3	70	21.1	65	15	240		28.85	8	+0.02	29.87	FM-12		29.91
01	1353	7	FEW:02 45 SCT:04 60 BKN:07 250	10.00		89	31.7	73	22.8	66	18.9	47	18	200	34	28.84			29.84	FM-15	T	29.88
01	1453	7	SCT:04 50 SCT:04 100 BKN:07 250	10.00		90	32.2	74	23.3	66	18.9	45	21	210	33	28.82			29.82	FM-15	0.00	29.86
01	1553	7	FEW:02 55 SCT:04 75 SCT:04 250	10.00		90	32.2	74	23.3	67	19.4	47	20	210	31	28.81	6	+0.05	29.81	FM-15	0.00	29.85
01	1600	4	57	9.94		90	32.2	74	23.3	67	19.4	47	20	210		28.79	6	+0.05	29.81	FM-12		29.85
01	1653	7	FEW:02 55 SCT:04 85 SCT:04 250	10.00		87	30.6	72	22.2	64	17.8	46	21	210	31	28.81			29.82	FM-15	0.00	29.85
01	1753	7	FEW:02 55 SCT:04 80 SCT:04 250	10.00		88	31.1	71	21.7	63	17.2	43	24	210	31	28.82			29.83	FM-15	0.00	29.87

01	1853	7	FEW:02 55 SCT:04 80 SCT:04 250	10.00		84	28.9	71	21.7	64	17.8	51	14	230		28.85	3	-0.05	29.86	FM-15	0.00	29.90
01	1900	4	57	9.94		84	28.9	71	21.7	64	17.8	51	14	230		28.84	3	-0.05	29.86	FM-12		29.90
01	1953	7	FEW:02 55 SCT:04 75 SCT:04 90	10.00		82	27.8	71	21.7	65	18.3	56	8	250		28.86			29.87	FM-15	0.00	29.91
01	2053	7	SCT:04 55	10.00		78	25.6	70	21.1	66	18.9	67	9	220		28.88			29.89	FM-15	0.00	29.93
01	2153	7	SCT:04 55 SCT:04 250	10.00		76	24.4	68	20.0	64	17.8	67	9	210		28.89	3	-0.04	29.91	FM-15	0.00	29.94
01	2200	4	57	9.94		76	24.4	68	20.0	64	17.8	67	9	210		28.88	3	-0.04	29.91	FM-12		29.94
01	2253	7	FEW:02 100 SCT:04 250	10.00		77	25.0	69	20.6	64	17.8	64	11	220		28.89			29.89	FM-15	0.00	29.94
01	2353	7	FEW:02 100	10.00		75	23.9	68	20.0	64	17.8	69	13	210		28.90			29.91	FM-15	0.00	29.95

Local Climatological Data
Hourly Remarks
August 2020

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Generated on 03/09/2021

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

Date	Time (LST)	Remarks
01	0051	MET09308/01/20 00:51:02 SPECI KTYS 010551Z 00000KT 10SM BKN028 OVC130 23/21 A2991 RMK AO2 FIBI (BB)
01	0053	MET12908/01/20 00:53:02 METAR KTYS 010553Z 00000KT 10SM BKN028 OVC130 23/21 A2991 RMK AO2 SLP114 60001 T02280211 10233 20222 56011 (BB)
01	0100	SYN08672326 12566 80000 10228 20211 39771 40114 56011 69931 90553 333 10317 20222 555 90106=
01	0153	MET11208/01/20 01:53:02 METAR KTYS 010653Z 00000KT 10SM SCT025 BKN032 BKN050 23/21 A2989 RMK AO2 SLP109 T02280211 (BB)
01	0253	MET10508/01/20 02:53:02 METAR KTYS 010753Z 00000KT 10SM BKN047 OVC130 22/21 A2989 RMK AO2 SLP108 T02220211 (BB)
01	0353	MET11108/01/20 03:53:02 METAR KTYS 010853Z 00000KT 10SM BKN030 OVC060 23/21 A2990 RMK AO2 SLP112 T02280211 55001 (BB)
01	0400	SYN06472326 32566 80000 10228 20211 39768 40112 55001 90853 555 90109=
01	0453	MET11208/01/20 04:53:02 METAR KTYS 010953Z 01003KT 10SM FEW026 BKN045 OVC065 22/21 A2991 RMK AO2 SLP116 T02220211 (BB)
01	0553	MET10508/01/20 05:53:02 METAR KTYS 011053Z 04003KT 10SM FEW050 FEW130 22/21 A2992 RMK AO2 SLP121 T02170206 (BB)
01	0653	MET12908/01/20 06:53:02 METAR KTYS 011153Z 00000KT 10SM FEW070 SCT250 23/22 A2993 RMK AO2 SLP123 70030 T02330217 10233 20217 53007 (BB)
01	0700	SYN08672326 32866 40000 10233 20217 39777 40123 53007 91153 333 10339 20217 70076 555 90112=
01	0753	MET10508/01/20 07:53:02 METAR KTYS 011253Z 00000KT 10SM FEW035 FEW250 25/22 A2993 RMK AO2 SLP123 T02500217 (NS)
01	0853	MET10508/01/20 08:53:02 METAR KTYS 011353Z 19007KT 10SM FEW035 FEW250 27/22 A2993 RMK AO2 SLP123 T02670217 (NS)
01	0953	MET11808/01/20 09:53:02 METAR KTYS 011453Z 19013KT 10SM FEW030 FEW070 SCT250 28/21 A2993 RMK AO2 SLP123 T02830206 50001 (NS)
01	1000	SYN06472326 32566 41913 10283 20206 39777 40123 50001 91453 555 90115=
01	1053	MET10808/01/20 10:53:02 METAR KTYS 011553Z 20015G25KT 10SM SCT040 SCT250 30/20 A2992 RMK AO2 SLP120 T03000200 (NS)
01	1153	MET10508/01/20 11:53:02 METAR KTYS 011653Z 20015KT 10SM SCT055 SCT250 30/19 A2991 RMK AO2 SLP117 T03000194 (NS)
01	1253	MET15208/01/20 12:53:02 METAR KTYS 011753Z 24013KT 10SM -RA SCT045 BKN065 BKN250 28/21 A2991 RMK AO2 RAB40 SLP115 P0000 60000 T02830211 10322 20233 58007 (NS)
01	1300	SYN09272326 11666 62413 10283 20211 39771 40115 58007 69901 761// 91753 333 10322 20228 555 90118=
01	1353	MET14508/01/20 13:53:02 METAR KTYS 011853Z 20016G30KT 10SM FEW045 SCT060 BKN250 32/19 A2988 RMK AO2 PK WND 20030/1850 RAE01 SLP105 P0000 T03170189 (NS)
01	1453	MET13308/01/20 14:53:02 METAR KTYS 011953Z 21018G29KT 10SM SCT050 SCT100 BKN250 32/19 A2986 RMK AO2 PK WND 20030/1935 SLP099 T03220189 (NS)
01	1553	MET14508/01/20 15:53:02 METAR KTYS 012053Z 21017G27KT 10SM FEW055 SCT075 SCT250 32/19 A2985 RMK AO2 PK WND 23032/2016 SLP094 60000 T03220194 56018 (GW)
01	1600	SYN08072326 12766 42117 10322 20194 39751 40094 56018 69907 92053 333 91027 555 90121=
01	1653	MET13308/01/20 16:53:02 METAR KTYS 012153Z 21018G27KT 10SM FEW055 SCT085 SCT250 31/18 A2985 RMK AO2 PK WND 22029/2111 SLP097 T03060178 (GW)
01	1753	MET13308/01/20 17:53:02 METAR KTYS 012253Z 21021G27KT 10SM FEW055 SCT080 SCT250 31/17 A2987 RMK AO2 PK WND 23029/2214 SLP102 T03110172 (GW)
01	1853	MET15408/01/20 18:53:02 METAR KTYS 012353Z 23012KT 10SM FEW055 SCT080 SCT250 29/18 A2990 RMK AO2 PK WND 22027/2254 SLP111 60000 T02890178 10328 20289 53016 (GW)
01	1900	SYN08672326 12766 42312 10289 20178 39768 40111 53016 69901 92353 333 10328 20217 555 90200=
01	1953	MET10708/01/20 19:53:01 METAR KTYS 020053Z 25007KT 10SM FEW055 SCT075 SCT090 28/18 A2991 RMK AO2 SLP116 T02780183
01	2053	MET09308/01/20 20:53:01 METAR KTYS 020153Z 22008KT 10SM SCT055 26/19 A2993 RMK AO2 SLP121 T02560189
01	2153	MET10608/01/20 21:53:01 METAR KTYS 020253Z 21008KT 10SM SCT055 SCT250 24/18 A2994 RMK AO2 SLP127 T02440178 53015
01	2200	SYN06472326 32766 42108 10244 20178 39781 40127 53015 90253 555 90203=
01	2253	MET10008/01/20 22:53:01 METAR KTYS 020353Z 22010KT 10SM FEW100 SCT250 25/18 A2994 RMK AO2 SLP123 T02500178
01	2353	MET10308/01/20 23:53:01 METAR KTYS 020453Z 21011KT 10SM FEW100 24/18 A2995 RMK AO2 SLP127 T02390178 403280217

Local Climatological Data
Hourly Precipitation
August 2020

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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													T	T											01	
02																									02	
03								T	T	0.04s	0.06												T	T	03	
04																									04	
05																	T	T			0.01	1.15	0.01		05	
06											0.17	0.05	T												06	
07																									07	
08																									08	
09																									09	
10						0.01	0.08	T	T	T	0.32	0.18	0.13	0.01											10	
11																0.22									11	
12																			M						12	
13																									13	
14																						T	T		14	
15						T	0.18s	1.31	0.24	0.29	0.05			0.09				0.16							15	
16																					1.33s	0.21			16	
17																									17	
18																									18	
19																									19	
20													T	0.01			T	T							20	
21		T	T				T	0.01	0.01	T	T	T				T	T		0.15s	0.04	T				21	
22							T											T							22	
23						T	0.06	0.03	0.02	0.09	0.02	T													23	
24																									24	
25														T	T	0.02	0.02	T							25	
26																									26	
27																									27	
28																		T					T	T	28	
29	T	T	0.12	0.11	0.08	0.05	0.01	T	0.01													T			29	
30									T														T	0.91	0.06	30
31	0.18	0.01																		T	0.01	T			31	

Maximum Short Duration Precipitation

Time Period (Minutes)	5	10	15	20	30	45	60	80	100	120	150	180
Precipitation (inches)	0.40	0.79	1.09	1.30	1.51	1.54	1.54	1.54	1.57	1.66	1.82	1.96
Ending Date Time (yyyy-mm-dd hh:mi)	2020-08-16 21:51	2020-08-16 21:51	2020-08-16 21:55	2020-08-16 21:58	2020-08-16 22:08	2020-08-16 22:11	2020-08-16 22:11	2020-08-16 22:11	2020-08-15 08:30	2020-08-15 08:51	2020-08-15 09:20	2020-08-15 09:51

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