

Local Climatological Data Daily Summary October 2021

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

Generated on 12/13/2021

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		Weather Type	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	82	60	71	5.5				0	6	0631	1820		0.00	0.0	0	29.13		3.4	13	030	10	040					
02	81	63	72	6.9				0	7	0632	1819	BR FG	0.00	0.0	0	29.13		3.0	22	230	15	230					
03	71	67	69	4.3				0	4	0632	1817	RA BR	0.77	0.0	0	29.00		5.2	19	200	14	210					
04	81	66	74	9.7				0	9	0633	1816	RA BR	0.06	0.0	0	28.93		3.1	13	200	10	190					
05	72	64	68	4.1				0	3	0634	1814	RA	0.03	0.0	0	29.02		2.9	10	030	8	040					
06	80	66	73	9.4				0	8	0635	1813	RA BR	0.13	0.0	0	29.08		5.7	19	160	10	090					
07	82	64	73	9.8				0	8	0636	1811	TS RA BR FG	2.39	0.0	0	29.08		5.2	35	170	23	200					
08	79	63	71	8.2				0	6	0636	1810	RA BR	0.08	0.0	0	29.03		1.2	12	010	8	020					
09	80	60	70	7.5				0	5	0637	1809	BR FG	0.00	0.0	0	29.00		2.4	12	060	8	050					
10	80	57	69	6.9				0	4	0638	1807	BR FG	0.00	0.0	0	28.97		2.1	17	340	8	360					
11	80	59	70	8.3				0	5	0639	1806	BR FG	0.00	0.0	0	28.93		3.6	15	230	12	230					
12	73	59	66	4.6				0	1	0640	1805	BR	0.00	0.0	0	29.02		1.6	13	270	8	220					
13	82	60	71	9.9				0	6	0641	1803	BR	0.00	0.0	0	29.02		2.1	12	330	9	330					
14	83*	64	74	13.3				0	9	0642	1802	BR FG	0.00	0.0	0	28.97		1.6	10	310	8	250					
15	82	66	74	13.6				0	9	0642	1801	BR FG	T	0.0	0	28.90		7.5	20	210	16	210					
16	72	48	60	-0.1				5	0	0643	1759	RA BR	0.27	0.0	0	28.93		9.6	30s	280s	22	280					
17	65	42	54	-5.7				11	0	0644	1758		0.00	0.0	0	29.14		2.3	21	350	14	340					
18	70	42	56	-3.4				9	0	0645	1757		0.00	0.0	0	29.14		0.9	11	260	7	300					
19	72	43	58	-1.1				7	0	0646	1755		0.00	0.0	0	29.16		1.1	9	280	6	280					
20	74	44	59	0.2				6	0	0647	1754	FG	0.00	0.0	0	29.18		2.6	17	220	14	230					
21	73	56	65	6.5				0	0	0648	1753	TS RA BR	0.23	0.0	0	29.03		8.3	28	200	22	210					
22	63	53	58	-0.1				7	0	0649	1752	FG	0.00	0.0	0	28.99		6.1	19	270	13	280					
23	69	47	58	0.2				7	0	0650	1751	BR FG	0.00	0.0	0	29.02		3.2	11	320	8	280					
24	75	46	61	3.5				4	0	0650	1749	BR	0.00	0.0	0	29.02		5.3	17	240	14	230					
25	73	50	62	4.8				3	0	0651	1748	RA BR	0.20	0.0	0	28.82		9.3	39	280	26	290					
26	57	41	49	-7.9				16	0	0652	1747	RA BR	T	0.0	0	28.92		5.0	19	020	14	010					
27	63	39*	51	-5.6				14	0	0653	1746	BR	0.00	0.0	0	28.88		6.6	20	040	15	020					
28	69	45	57	0.7				8	0	0654	1745	RA BR	0.05	0.0	0	28.58		5.8	30	160	21	160					
29	55	48	52	-4.0				13	0	0655	1744	RA BR FG	0.08	0.0	0	28.46		6.2	20	260	16	220					
30	55	49	52	-3.6				13	0	0656	1743	RA BR	0.24	0.0	0	28.56		11.9	24	210	17	220					
31	61	48	55	-0.3				10	0	0657	1742		T	0.0	0	28.89		5.7	18	310	13	280					
Monthly Averages Totals													4.49s			28.97	29.99	4.5									
Departure from Normal (1981-2010)													1.98s														
Degree Days											Number of days with...																
Monthly					Season-to-date					Temperature				Precipitation		Snow		Weather									
Total		Departure			Total		Departure			Max		Min		>=0.01"		>=0.1"		>=1"		T-Storms		Heavy Fog					
Heating		136			-60			151		>=90°		<=32°		<=32°		<=0°		8s		5s		0		2		6	
Cooling		88			52			1594		0		0		0		0		0		0		0		0		0	
Date of 5-sec to 3-sec wind equipment change								Sea Level Pressure						Greatest...													
2007-04-17								Maximum		30.32		Date		20		Time		0939		24-Hr... Precip		2.43s		Snowfall		Snow Depth	
								Minimum		29.42				29				0513									
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 2021

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

Generated on 12/13/2021

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	BKN:07 250	10.00		67	19.4	65	18.3	64	17.8	91	7	020		29.11	0	0.00	30.13	FM-15	0.00	30.16
01	0100	4		9.94		67	19.4	65	18.3	64	17.8	91	7	020		29.10	9	0.00	30.13	FM-12		30.16
01	0153	7	CLR:00	10.00		67	19.4	63	17.2	60	15.6	79	9	020		29.11			30.12	FM-15	0.00	30.16
01	0253	7	BKN:07 250	10.00		65	18.3	61	16.1	59	15.0	81	5	350		29.11			30.13	FM-15	0.00	30.16
01	0353	7	BKN:07 250	10.00		65	18.3	61	16.1	59	15.0	81	3	360		29.12	3	-0.01	30.14	FM-15	0.00	30.17
01	0400	4		9.94		65	18.3	61	16.1	59	15.0	81	3	360		29.10	3	-0.01	30.14	FM-12		30.17
01	0453	7	BKN:07 250	10.00		63	17.2	61	16.1	59	15.0	87	7	030		29.12			30.15	FM-15	0.00	30.17
01	0553	7	SCT:04 150 BKN:07 250	10.00		61	16.1	58	14.4	56	13.3	84	6	040		29.14			30.16	FM-15	0.00	30.19
01	0653	7	BKN:07 250	10.00		61	16.1	58	14.4	56	13.3	84	5	030		29.15	3	-0.04	30.18	FM-15	0.00	30.21
01	0700	4		9.94		61	16.1	58	14.4	56	13.3	84	5	030		29.14	3	-0.04	30.18	FM-12		30.21
01	0753	7	BKN:07 160 OVC:08 250	10.00		63	17.2	59	15.0	56	13.3	78	6	040		29.16			30.20	FM-15	0.00	30.22
01	0853	7	BKN:07 170 OVC:08 250	10.00		65	18.3	60	15.6	57	13.9	76	9	040		29.18			30.21	FM-15	0.00	30.23
01	0953	7	BKN:07 140 OVC:08 250	10.00		68	20.0	63	17.2	59	15.0	73	5	VRB		29.18	1	-0.02	30.20	FM-15	0.00	30.23
01	1000	4		9.94		68	20.0	63	17.2	59	15.0	73	5			29.16	1	-0.02	30.20	FM-12		30.23
01	1053	7	FEW:02 30 BKN:07 140 OVC:08 260	10.00		72	22.2	65	18.3	60	15.6	66	3	VRB		29.18			30.20	FM-15	0.00	30.23
01	1153	7	FEW:02 32 BKN:07 150 OVC:08 250	10.00		74	23.3	66	18.9	61	16.1	64	0	000		29.18			30.20	FM-15	0.00	30.23
01	1253	7	FEW:02 35 SCT:04 150 BKN:07 200	10.00		76	24.4	67	19.4	62	16.7	62	0	000		29.16	8	+0.01	30.19	FM-15	0.00	30.22
01	1300	4	41	9.94		76	24.4	67	19.4	62	16.7	62	0	000		29.15	8	+0.01	30.19	FM-12		30.22
01	1353	7	FEW:02 40 FEW:02 150 BKN:07 200	10.00		78	25.6	68	20.0	62	16.7	58	0	000		29.14			30.16	FM-15	0.00	30.19
01	1453	7	FEW:02 40 FEW:02 150 BKN:07 200	10.00		78	25.6	69	20.6	64	17.8	62	5	290		29.13			30.15	FM-15	0.00	30.18
01	1553	7	FEW:02 40 FEW:02 150 BKN:07 250	10.00		80	26.7	70	21.1	64	17.8	58	0	000		29.12	6	+0.05	30.14	FM-15	0.00	30.17
01	1600	4	41	9.94		80	26.7	70	21.1	64	17.8	58	0	000		29.10	6	+0.05	30.14	FM-12		30.17
01	1653	7	FEW:02 100 BKN:07 250	10.00		80	26.7	70	21.1	64	17.8	58	0	000		29.11			30.14	FM-15	0.00	30.16
01	1753	7	FEW:02 100 BKN:07 250	10.00		77	25.0	69	20.6	64	17.8	64	3	220		29.12			30.14	FM-15	0.00	30.17
01	1853	7	FEW:02 60 FEW:02 250	10.00		74	23.3	68	20.0	65	18.3	74	0	000		29.13	3	-0.01	30.15	FM-15	0.00	30.18
01	1900	4	57	9.94		74	23.3	68	20.0	65	18.3	74	0	000		29.12	3	-0.01	30.15	FM-12		30.18
01	1953	7	FEW:02 200	10.00		71	21.7	68	20.0	66	18.9	84	0	000		29.14			30.16	FM-15	0.00	30.19
01	2053	7	FEW:02 200	10.00		70	21.1	67	19.4	66	18.9	87	0	000		29.15			30.17	FM-15	0.00	30.20
01	2153	7	FEW:02 200	10.00		69	20.6	67	19.4	66	18.9	90	0	000		29.15	1	-0.02	30.17	FM-15	0.00	30.20
01	2200	4		9.94		69	20.6	67	19.4	66	18.9	90	0	000		29.13	1	-0.02	30.17	FM-12		30.20
01	2253	7	FEW:02 200	10.00		68	20.0	67	19.4	66	18.9	93	3	130		29.15			30.18	FM-15	0.00	30.20

01	2353	7	BKN:07 32 BKN:07 42 OVC:08 49	9.00		67	19.4	66	18.9	66	18.9	97	5	060		29.15			30.17	FM-15	0.00	30.20
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U.S. Department of Commerce
 National Oceanic & Atmospheric Administration
 National Environmental Satellite, Data, and Information Service

Local Climatological Data
Hourly Remarks
October 2021

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 12/13/2021

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

Date	Time (LST)	Remarks
01	0053	MET11710/01/21 00:53:02 METAR KTYS 010553Z 02006KT 10SM BKN250 19/18 A3016 RMK AO2 SLP202 T01940178 10244 20183 50000 (JTD)
01	0100	SYN08072326 32966 60206 10194 20178 39853 40202 50000 90553 333 10278 20161 555 90106=
01	0153	MET09610/01/21 01:53:02 METAR KTYS 010653Z 02008KT 10SM CLR 19/16 A3016 RMK AO2 SLP201 T01940156 (JTD)
01	0253	MET09910/01/21 02:53:02 METAR KTYS 010753Z 35004KT 10SM BKN250 18/15 A3016 RMK AO2 SLP202 T01830150 (JTD)
01	0353	MET10510/01/21 03:53:02 METAR KTYS 010853Z 36003KT 10SM BKN250 18/15 A3017 RMK AO2 SLP205 T01830150 53003 (JTD)
01	0400	SYN06472326 32966 63603 10183 20150 39856 40205 53003 90853 555 90109=
01	0453	MET09910/01/21 04:53:02 METAR KTYS 010953Z 03006KT 10SM BKN250 17/15 A3017 RMK AO2 SLP209 T01720150 (JTD)
01	0553	MET10610/01/21 05:53:02 METAR KTYS 011053Z 04005KT 10SM SCT150 BKN250 16/13 A3019 RMK AO2 SLP213 T01610133 (JTD)
01	0653	MET11710/01/21 06:53:02 METAR KTYS 011153Z 03004KT 10SM BKN250 16/13 A3021 RMK AO2 SLP220 T01610133 10194 20156 53012 (JTD)
01	0700	SYN08072326 32966 60304 10161 20133 39869 40220 53012 91153 333 10294 20156 555 90112=
01	0753	MET10510/01/21 07:53:02 METAR KTYS 011253Z 04005KT 10SM BKN160 OVC250 17/13 A3022 RMK AO2 SLP226 T01720133 (MB)
01	0853	MET10510/01/21 08:53:02 METAR KTYS 011353Z 04008KT 10SM BKN170 OVC250 18/14 A3023 RMK AO2 SLP229 T01830139 (MB)
01	0953	MET11110/01/21 09:53:02 METAR KTYS 011453Z VRB04KT 10SM BKN140 OVC250 20/15 A3023 RMK AO2 SLP228 T02000150 51008 (MB)
01	1000	SYN06472326 32966 8/04 10200 20150 39876 40228 51008 91453 555 90115=
01	1053	MET11210/01/21 10:53:02 METAR KTYS 011553Z VRB03KT 10SM FEW030 BKN140 OVC260 22/16 A3023 RMK AO2 SLP228 T02220156 (MB)
01	1153	MET11210/01/21 11:53:02 METAR KTYS 011653Z 00000KT 10SM FEW032 BKN150 OVC250 23/16 A3023 RMK AO2 SLP227 T02330161 (MB)
01	1253	MET13010/01/21 12:53:02 METAR KTYS 011753Z 00000KT 10SM FEW035 SCT150 BKN200 24/17 A3022 RMK AO2 SLP223 T02440167 10244 20161 58004 (MB)
01	1300	SYN08072326 32666 60000 10244 20167 39873 40223 58004 91753 333 10244 20161 555 90118=
01	1353	MET11210/01/21 13:53:02 METAR KTYS 011853Z 00000KT 10SM FEW040 FEW150 BKN200 26/17 A3019 RMK AO2 SLP214 T02560167 (MB)
01	1453	MET11210/01/21 14:53:02 METAR KTYS 011953Z 29004KT 10SM FEW040 FEW150 BKN200 26/18 A3018 RMK AO2 SLP211 T02560178 (MB)
01	1553	MET11810/01/21 15:53:02 METAR KTYS 012053Z 00000KT 10SM FEW040 FEW150 BKN250 27/18 A3017 RMK AO2 SLP207 T02670178 56016 (GW)
01	1600	SYN06472326 32666 60000 10267 20178 39856 40207 56016 92053 555 90121=
01	1653	MET10510/01/21 16:53:02 METAR KTYS 012153Z 00000KT 10SM FEW100 BKN250 27/18 A3016 RMK AO2 SLP205 T02670178 (GW)
01	1753	MET10510/01/21 17:53:02 METAR KTYS 012253Z 22003KT 10SM FEW100 BKN250 25/18 A3017 RMK AO2 SLP206 T02500178 (GW)
01	1853	MET12310/01/21 18:53:02 METAR KTYS 012353Z 00000KT 10SM FEW060 FEW250 23/18 A3018 RMK AO2 SLP211 T02330183 10278 20233 53002 (GW)
01	1900	SYN08072326 32766 20000 10233 20183 39860 40211 53002 92353 333 10278 20156 555 90200=
01	1953	MET09310/01/21 19:53:01 METAR KTYS 020053Z 00000KT 10SM FEW200 22/19 A3019 RMK AO2 SLP215 T02170189
01	2053	MET09310/01/21 20:53:01 METAR KTYS 020153Z 00000KT 10SM FEW200 21/19 A3020 RMK AO2 SLP218 T02110189
01	2153	MET09910/01/21 21:53:02 METAR KTYS 020253Z 00000KT 10SM FEW200 21/19 A3020 RMK AO2 SLP218 T02060189 51008
01	2200	SYN06472326 32966 20000 10206 20189 39866 40218 51008 90253 555 90203=
01	2253	MET09310/01/21 22:53:02 METAR KTYS 020353Z 13003KT 10SM FEW200 20/19 A3020 RMK AO2 SLP219 T02000189
01	2353	MET11610/01/21 23:53:02 METAR KTYS 020453Z 06004KT 9SM BKN032 BKN042 OVC049 19/19 A3020 RMK AO2 SLP216 T01940189 402780156

Local Climatological Data
Hourly Precipitation
October 2021

Generated on 12/13/2021

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																									01	
02																									02	
03				T	T	0.22	T	0.13	T	0.11	0.07	T	0.01	0.12	0.06	T	T	T		T	0.01	T		0.04	03	
04	0.04	0.01				0.01				T															04	
05					T							T	T	0.01	T	T	T					T	T	0.01	0.01	05
06	T	T		0.03s	0.03	0.01	0.05	0.01	T	T	T											T	T	0.01	T	06
07	0.03	T	0.01	T	T	T	T											0.63	0.06	0.02	0.03	0.30	0.91	0.35	0.05	07
08	0.01		T	T	0.01	0.01	0.03	0.01	0.01	T																08
09																										09
10																										10
11																										11
12																										12
13																										13
14																										14
15																									T	15
16	0.01	T	0.05	0.10	T	0.01	0.09	0.01																		16
17																										17
18																										18
19																										19
20																										20
21						0.01	0.05	T	T	0.01	T							0.07	0.04					0.05		21
22																										22
23																										23
24																										24
25												T	0.13	0.07												25
26					T		T	T																		26
27																										27
28													T	T	0.04	0.01	T					T	T		T	28
29	0.01					T	T		T		T	0.04	T	T	0.01	T	0.01	0.01	T							29
30			T	T	0.01	0.01	0.01	T		0.03	0.04	0.03	0.04	0.03	0.01	T		0.01	T	0.01	0.01					30
31											T															31
Maximum Short Duration Precipitation																										
Time Period (Minutes)	5	10	15	20	30	45	60	80	100	120	150	180														
Precipitation (inches)	0.19	0.35	0.46	0.54	0.61	0.65	0.92	1.16	1.25	1.37	1.49	1.59														
Ending Date Time (yyyy-mm-dd hh:mi)	2021-10-07 16:36	2021-10-07 16:41	2021-10-07 16:45	2021-10-07 16:50	2021-10-07 16:58	2021-10-07 17:12	2021-10-07 22:02	2021-10-07 22:13	2021-10-07 22:32	2021-10-07 22:52	2021-10-07 23:08	2021-10-07 23:05														

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