

Local Climatological Data Daily Summary July 2022

Current Location: Elev: 970 ft. Lat: 35.8180° N Lon: -83.9857° W

Generated on 08/03/2022

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	93	69	81	3.2				0	16	0523	1956	TS RA	T	0.0	0	29.05		4.2	23	210	17	210						
02	90	71	81	3.1				0	16	0524	1956	TS RA	T	0.0	0	28.98		5.9	32	250	22	250						
03	90	72	81	3.0				0	16	0524	1956	TS RA BR	0.46	0.0	0	29.02		3.4	30	340	23	340						
04	93	72	83	4.9				0	18	0525	1956	RA BR HZ FG	0.01	0.0	0	29.06		3.4	16	280	12	290						
05	95	74	85	6.8				0	20	0525	1956	TS	0.02	0.0	0	29.02		5.8	34	010	22	010						
06	95*	73	84	5.8				0	19	0526	1955	TS RA BR	0.46	0.0	0	28.96		5.5	40	260	30	270						
07	90	71	81	2.7				0	16	0526	1955	TS RA BR	0.67	0.0	0	28.98		5.7	33	280	24	280						
08	93	71	82	3.6				0	17	0527	1955	TS RA BR	0.59	0.0	0	29.00		4.1	37	360	25	350						
09	86	71	79	0.6				0	14	0527	1955	TS RA BR	1.30	0.0	0	28.95		6.0	22	240	16	230						
10	84	72	78	-0.5				0	13	0528	1954	RA BR	0.13	0.0	0	28.90		6.7	19	020	15	020						
11	88	70	79	0.5				0	14	0528	1954		0.00	0.0	0	28.90		4.4	14	250	10	240						
12	89	69	79	0.5				0	14	0529	1954	TS RA	0.17	0.0	0	28.92		8.6	48	350	33	350						
13	87	68	78	-0.5				0	13	0530	1953		0.00	0.0	0	28.96		3.8	18	270	13	280						
14	89	67*	78	-0.6				0	13	0530	1953		0.00	0.0	0	29.05		2.6	14	350	10	010						
15	90	68	79	0.4				0	14	0531	1952		0.00	0.0	0	29.08		2.5	15	300	12	310						
16	92	69	81	2.4				0	16	0532	1952		0.00	0.0	0	29.02		3.5	14	170	9	300						
17	91	71	81	2.4				0	16	0532	1951		0.00	0.0	0	28.97		5.3	20	250	15	240						
18	91	71	81	2.4				0	16	0533	1951	TS RA BR	0.24	0.0	0	28.90		10.4	36	280	29	270						
19	87	71	79	0.4				0	14	0534	1950		T	0.0	0	28.93		7.7	22	270	15	220						
20	92	73	83	4.4				0	18	0534	1950	TS RA	T	0.0	0	28.85		11.7	28	210	21	220						
21	85	69	77	-1.6				0	12	0535	1949	TS RA BR	0.69	0.0	0	28.85		9.8	31	360	23	360						
22	93	73	83	4.4				0	18	0536	1948	FG BR	0.00	0.0	0	28.97		2.9	14	290	10	340						
23	93	73	83	4.4				0	18	0537	1948	TS	T	0.0	0	29.06		5.6	28	140	20	130						
24	90	70	80	1.4				0	15	0537	1947		0.00	0.0	0	29.05		6.7	24	130	16	130						
25	85	75	80	1.5				0	15	0538	1946	TS RA BR	0.40	0.0	0	29.03		7.2	25	220	20	210						
26	88	73	81	2.5				0	16	0539	1946	TS	0.02	0.0	0	29.02		9.6	24	200	18	220						
27	90	73	82	3.5				0	17	0540	1945	TS RA	0.75	0.0	0	29.00		10.1	53	260	38	270						
28	90	72	81	2.5				0	16	0540	1944	TS RA BR FG	0.83	0.0	0	28.97		9.9	39	250	21	260						
29	82	72	77	-1.5				0	12	0541	1943	RA BR	0.37	0.0	0	29.01		6.6	20	240	15	240						
30	87	71	79	0.5				0	14	0542	1942		T	0.0	0	29.09		4.4	17	010	12	020						
31	86	73	80	1.5				0	15	0543	1941	TS RA BR FG	0.68	0.0	0	29.10		10.6	27	220	23	200						
Monthly Averages Totals													7.79			28.98	30.00											
Departure from Normal (1981-2010)													2.71s															
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										>=90°		<=32°		<=32°		<=0°		10s		8s		12						
Cooling										18		0		0		0		10s		8s		12						
Date of 5-sec to 3-sec wind equipment change								Sea Level Pressure					Greatest...															
2007-04-17								Maximum		30.16			Date		30		Time		1025		24-Hr...		Snow Depth					
								Minimum		29.77			Date		20		Time		1931		Precip				1.89		Snowfall	
																		Date										
										08-09																		
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 July 2022

Current Location: Elev: 970 ft. Lat: 35.8180° N Lon: -83.9857° W

Generated on 08/03/2022

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		76	24.4	70	21.1	67	19.4	74	5	230		29.09	8	+0.01	30.10	FM-15	0.00	30.14
01	0100	4		9.94		76	24.4	70	21.1	67	19.4	74	5	230		29.08	8	+0.01	30.10	FM-12		30.14
01	0153	7	CLR:00	10.00		74	23.3	69	20.6	67	19.4	79	0	000		29.07			30.08	FM-15	0.00	30.12
01	0253	7	CLR:00	10.00		73	22.8	70	21.1	68	20.0	84	3	030		29.07			30.08	FM-15	0.00	30.12
01	0353	7	CLR:00	10.00		72	22.2	69	20.6	68	20.0	87	0	000		29.08	5	+0.01	30.09	FM-15	0.00	30.13
01	0400	4		9.94		72	22.2	69	20.6	68	20.0	87	0	000		29.07	5	+0.01	30.09	FM-12		30.13
01	0453	7	FEW:02 75	10.00		72	22.2	70	21.1	69	20.6	91	5	350		29.09			30.11	FM-15	0.00	30.14
01	0553	7	FEW:02 75 SCT:04 200	10.00		70	21.1	69	20.6	68	20.0	93	3	130		29.10			30.11	FM-15	0.00	30.15
01	0653	7	FEW:02 32 SCT:04 120 SCT:04 250	10.00		71	21.7	69	20.6	68	20.0	90	0	000		29.11	1	-0.03	30.12	FM-15	0.00	30.16
01	0700	4	26	9.94		71	21.7	69	20.6	68	20.0	90	0	000		29.10	1	-0.03	30.12	FM-12		30.16
01	0753	7	FEW:02 30 FEW:02 120 SCT:04 200	10.00		76	24.4	71	21.7	69	20.6	79	3	VRB		29.12			30.13	FM-15	0.00	30.17
01	0853	7	FEW:02 32 FEW:02 120 FEW:02 200	10.00		81	27.2	74	23.3	70	21.1	69	3	VRB		29.11			30.12	FM-15	0.00	30.16
01	0953	7	FEW:02 35 FEW:02 200	10.00		84	28.9	73	22.8	68	20.0	59	5	070		29.10	8	+0.01	30.11	FM-15	0.00	30.15
01	1000	4	41	9.94		84	28.9	73	22.8	68	20.0	59	5	070		29.09	8	+0.01	30.11	FM-12		30.15
01	1053	7	SCT:04 40	10.00		87	30.6	74	23.3	68	20.0	53	6	280		29.09			30.09	FM-15	0.00	30.14
01	1153	7	BKN:07 45	10.00		87	30.6	73	22.8	67	19.4	51	0	000		29.06			30.07	FM-15	0.00	30.11
01	1253	7	SCT:04 50 SCT:04 150 BKN:07 250	10.00		90	32.2	74	23.3	67	19.4	47	3	200		29.03	8	+0.06	30.04	FM-15	0.00	30.08
01	1300	4	57	9.94		90	32.2	74	23.3	67	19.4	47	3	200		29.02	8	+0.06	30.04	FM-12		30.08
01	1353	7	SCT:04 55 SCT:04 250	10.00		90	32.2	74	23.3	67	19.4	47	6	260		29.00			30.01	FM-15	0.00	30.05
01	1453	7	SCT:04 55 SCT:04 150 BKN:07 250	10.00		90	32.2	74	23.3	66	18.9	45	5	360		28.98			29.98	FM-15	0.00	30.03
01	1553	7	SCT:04 60 SCT:04 150 BKN:07 250	10.00		93	33.9	74	23.3	66	18.9	41	0	000		28.97	6	+0.06	29.98	FM-15	0.00	30.02
01	1600	4	57	9.94		93	33.9	74	23.3	66	18.9	41	0	000		28.96	6	+0.06	29.98	FM-12		30.02
01	1653	7	SCT:04 60 SCT:04 110 BKN:07 250	10.00		92	33.3	74	23.3	66	18.9	43	8	100		28.96			29.97	FM-15	0.00	30.01
01	1753	7	FEW:02 60 SCT:04 90 BKN:07 250	10.00	-RA:02 RA RA	88	31.1	74	23.3	68	20.0	52	8	180		28.96			29.97	FM-15	T	30.01
01	1820	7	FEW:02 50 SCT:04 85 BKN:07 250	10.00	TS:7 TS TS	87	30.6	74	23.3	68	20.0	53	8	220		28.97				FM-16	T	30.02
01	1821	7	FEW:02 50 SCT:04 85 BKN:07 250	10.00	TS:7 TS TS	87	30.6	74	23.3	68	20.0	53	8	220		28.97				FM-16	T	30.02
01	1850	7	FEW:02 65 SCT:04 90 BKN:07 250	10.00		86	30.0	73	22.8	66	18.9	52	6	240		28.96				FM-16	T	30.01

01	1853	7	FEW:02 65 SCT:04 90 BKN:07 250	10.00		86	30.0	73	22.8	67	19.4	53	6	250		28.97	5	+0.01	29.98	FM-15	T	30.02
01	1900	4	57	9.94		86	30.0	73	22.8	67	19.4	53	6	250		28.96	5	+0.01	29.98	FM-12		30.02
01	1906	7	FEW:02 65 SCT:04 90 BKN:07 250	10.00	VCTS:7	86	30.0	74	23.3	68	20.0	55	8	290		28.98				FM-16		30.03
01	1921	7	BKN:07 70 BKN:07 95 BKN:07 250	10.00		85	29.4	73	22.8	68	20.0	57	6	260		28.98				FM-16		30.03
01	1953	7	SCT:04 65 SCT:04 100 BKN:07 250	10.00		83	28.3	73	22.8	69	20.6	63	8	210		28.98			29.99	FM-15	0.00	30.03
01	2053	7	SCT:04 65 SCT:04 100 BKN:07 250	10.00		78	25.6	73	22.8	70	21.1	76	3	230		28.98			29.99	FM-15	T	30.03
01	2153	7	SCT:04 130	10.00		77	25.0	72	22.2	70	21.1	79	7	230		29.01	3	-0.04	30.02	FM-15	0.00	30.06
01	2200	4		9.94		77	25.0	72	22.2	70	21.1	79	7	230		29.00	3	-0.04	30.02	FM-12		30.06
01	2253	7	BKN:07 130 BKN:07 250	10.00		77	25.0	72	22.2	69	20.6	77	7	220		29.01			30.02	FM-15	0.00	30.06
01	2353	7	CLR:00	10.00		77	25.0	72	22.2	69	20.6	77	7	260		28.99			30.00	FM-15	0.00	30.04

Local Climatological Data
Hourly Remarks
July 2022

Current Location: Elev: 970 ft. Lat: 35.8180° N Lon: -83.9857° W

Generated on 08/03/2022

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

Date	Time (LST)	Remarks
01	0053	MET11407/01/22 00:53:02 METAR KTYS 010553Z 23004KT 10SM CLR 24/19 A3014 RMK AO2 SLP192 T02440194 10272 20233 58002 (JTD)
01	0100	SYN08072326 32966 02304 10244 20194 39846 40192 58002 90553 333 10311 20228 555 90106=
01	0153	MET09607/01/22 01:53:02 METAR KTYS 010653Z 00000KT 10SM CLR 23/19 A3012 RMK AO2 SLP187 T02330194 (JTD)
01	0253	MET09607/01/22 02:53:02 METAR KTYS 010753Z 03003KT 10SM CLR 23/20 A3012 RMK AO2 SLP187 T02280200 (JTD)
01	0353	MET10207/01/22 03:53:02 METAR KTYS 010853Z 00000KT 10SM CLR 22/20 A3013 RMK AO2 SLP189 T02220200 55003 (JTD)
01	0400	SYN06472326 32966 00000 10222 20200 39843 40189 55003 90853 555 90109=
01	0453	MET09907/01/22 04:53:02 METAR KTYS 010953Z 35004KT 10SM FEW075 22/21 A3014 RMK AO2 SLP195 T02220206 (JTD)
01	0553	MET10607/01/22 05:53:02 METAR KTYS 011053Z 13003KT 10SM FEW075 SCT200 21/20 A3015 RMK AO2 SLP198 T02110200 (JTD)
01	0653	MET13707/01/22 06:53:02 METAR KTYS 011153Z 00000KT 10SM FEW032 SCT120 SCT250 22/20 A3016 RMK AO2 SLP201 70004 T02170200 10244 20206 51010 (JTD)
01	0700	SYN08672326 32566 40000 10217 20200 39853 40201 51010 91153 333 10333 20206 70010 555 90112=
01	0753	MET11307/01/22 07:53:02 METAR KTYS 011253Z VRB03KT 10SM FEW030 FEW120 SCT200 24/21 A3017 RMK AO2 SLP202 T02440206 (JTD)
01	0853	MET11207/01/22 08:53:02 METAR KTYS 011353Z VRB03KT 10SM FEW032 FEW120 FEW200 27/21 A3016 RMK AO2 SLP201 T02720211 (MB)
01	0953	MET11107/01/22 09:53:02 METAR KTYS 011453Z 07004KT 10SM FEW035 FEW200 29/20 A3015 RMK AO2 SLP196 T02890200 58004 (MB)
01	1000	SYN06472326 32666 20704 10289 20200 39850 40196 58004 91453 555 90115=
01	1053	MET09807/01/22 10:53:02 METAR KTYS 011553Z 28005KT 10SM SCT040 31/20 A3014 RMK AO2 SLP191 T03060200 (MB)
01	1153	MET09807/01/22 11:53:02 METAR KTYS 011653Z 00000KT 10SM BKN045 31/19 A3011 RMK AO2 SLP183 T03060194 (MB)
01	1253	MET13007/01/22 12:53:02 METAR KTYS 011753Z 20003KT 10SM SCT050 SCT150 BKN250 32/19 A3008 RMK AO2 SLP172 T03220194 10322 20217 58022 (MB)
01	1300	SYN08072326 32766 62003 10322 20194 39827 40172 58022 91753 333 10322 20217 555 90118=
01	1353	MET10507/01/22 13:53:02 METAR KTYS 011853Z 26005KT 10SM SCT055 SCT250 32/19 A3005 RMK AO2 SLP162 T03220194 (MB)
01	1453	MET11207/01/22 14:53:02 METAR KTYS 011953Z 36004KT 10SM SCT055 SCT150 BKN250 32/19 A3003 RMK AO2 SLP154 T03220189 (MB)
01	1553	MET15407/01/22 15:53:02 METAR KTYS 012053Z 00000KT 10SM SCT060 SCT150 BKN250 34/19 A3002 RMK AO2 SLP152 CB DSNT SE AND DSNT SW AND DSNT NW T03390189 56019 (ALG)
01	1600	SYN06472326 32766 60000 10339 20189 39807 40152 56019 92053 555 90121=
01	1653	MET16107/01/22 16:53:02 METAR KTYS 012153Z 10007KT 10SM SCT060 SCT110 BKN250 33/19 A3001 RMK AO2 SLP148 CB DSNT E-S-W SHRA N AND SE AND SW MDT CU ALQDS T03330189 (ALG)
01	1753	MET16807/01/22 17:53:02 METAR KTYS 012253Z 18007KT 10SM -RA FEW060 SCT090 BKN250 31/20 A3001 RMK AO2 LTG DSNT SE RAB30 SLP148 CB DSNT E-S-W MDT CU ALQDS P0000 T03110200 (ALG)
01	1820	MET20507/01/22 18:20:02 SPECI KTYS 012320Z 22007KT 10SM TS FEW050CB SCT085 BKN250 31/20 A3002 RMK AO2 LTG DSNT NW RAE10 TSB20 OCNL LTG DSNT NW TS DSNT NW CB DSNT E-S-W SHRA SE AND SSW AND W P0000 T03060200 (ALG)
01	1821	MET20507/01/22 18:21:02 SPECI KTYS 012321Z 22007KT 10SM TS FEW050CB SCT085 BKN250 31/20 A3002 RMK AO2 LTG DSNT NW RAE10 TSB20 OCNL LTG DSNT NW TS DSNT NW CB DSNT E-S-W SHRA SE AND SSW AND W P0000 T03060200 (ALG)
01	1850	MET16607/01/22 18:50:02 SPECI KTYS 012350Z 24005KT 10SM FEW065 SCT090 BKN250 30/19 A3001 RMK AO2 LTG DSNT W RAE10 TSB20E50 CB DSNT S AND S-W-NW SHRA S AND SW-NW P0000 (ALG)
01	1853	MET19707/01/22 18:53:02 METAR KTYS 012353Z 25005KT 10SM FEW065 SCT090 BKN250 30/19 A3002 RMK AO2 LTG DSNT W RAE10 TSB20E50 SLP151 CB DSNT E-S-W-NW SHRA SW-NW P0000 60000 T03000194 10339 20300 55002 (ALG)
01	1900	SYN08672326 12766 62505 10300 20194 39807 40151 55002 69901 92353 333 10339 20206 555 90200=
01	1906	MET15507/01/22 19:06:01 SPECI KTYS 020006Z 29007KT 10SM VCTS FEW065 SCT090 BKN250 30/20 A3003 RMK AO2 LTG DSNT W AND NW TSE00 CB DSNT E-S-W-W SHRA SW-W T03000200
01	1921	MET15907/01/22 19:21:01 SPECI KTYS 020021Z 26005KT 10SM BKN070 BKN095 BKN250 29/20 A3003 RMK AO2 LTG DSNT W AND NW TSE00 CB DSNT NE-E-SE AND SW-WNW SHRA NW T02940200
01	1953	MET17707/01/22 19:53:01 METAR KTYS 020053Z 21007KT 10SM SCT065 SCT100 BKN250 28/21 A3003 RMK AO2 LTG DSNT NE TSE00 SLP156 CB DSNT NE AND DSNT SE AND DSNT SW-W VCWSH W SHRA NE T02830206
01	2053	MET15007/01/22 20:53:01 METAR KTYS 020153Z 23003KT 10SM SCT065 SCT100 BKN250 26/21 A3003 RMK AO2 RAB05E42 SLP156 OCNL LTG DSNT NE CB DSNT NE P0000 T02560211
01	2153	MET10507/01/22 21:53:01 METAR KTYS 020253Z 23006KT 10SM SCT130 25/21 A3006 RMK AO2 SLP166 60000 T02500211 53015
01	2200	SYN07072326 12966 42306 10250 20211 39820 40166 53015 69907 90253 555 90203=
01	2253	MET10007/01/22 22:53:02 METAR KTYS 020353Z 22006KT 10SM BKN130 BKN250 25/21 A3006 RMK AO2 SLP165 T02500206
01	2353	MET10007/01/22 23:53:02 METAR KTYS 020453Z 26006KT 10SM CLR 25/21 A3004 RMK AO2 SLP158 T02500206 403390206

Local Climatological Data Hourly Precipitation July 2022

Current Location: Elev: 970 ft. Lat: 35.8180° N Lon: -83.9857° W

Generated on 08/03/2022

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																T	T									02
03														T		T	0.44	0.01	0.01							03
04						0.01	T																			04
05																										05
06																	T	T								06
07							T	T	0.11	0.06	0.04	0.02	0.01							0.39	0.06	0.01				07
08																		0.01	0.55	T	0.03	0.04	T	T	T	08
09					0.01	0.36	0.93	T					T			T	T									09
10	0.01	T	T																							10
11																										11
12																										12
13																										13
14																										14
15													T	T	T											15
16																										16
17																										17
18																	0.10	0.13	0.01							18
19							T																			19
20																										20
21	0.15																									21
22																										22
23																										23
24																										24
25																										25
26	T																									26
27																										27
28																										28
29																										29
30																										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)	0.39	0.60	0.72	0.80	1.12	1.21	1.27	1.28	1.29	1.29	1.30	1.30
Ending Date Time (yyyy-mm-dd hh:mi)	2022-07-27 14:09	2022-07-27 14:11	2022-07-27 14:14	2022-07-09 06:18	2022-07-09 06:21	2022-07-09 06:23	2022-07-09 06:37	2022-07-09 06:40	2022-07-09 06:40	2022-07-09 06:40	2022-07-09 06:40	2022-07-09 06:40

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