

Local Climatological Data Daily Summary May 2021

Generated on 12/13/2021

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	76	46	61	-1.9	35	31	48	4	0	0544	1923		0.00	0.0	0	29.03	30.06	4.4	19	360	14	360					
02	77	47	62	-1.1	66	50	56	3	0	0543	1923	RA	T	0.0	0	28.90	29.91	3.0	9	070	7	070					
03	81	66	74	10.6	80	65	67	0	9	0542	1924	TS RA	0.38	0.0	0	28.73	29.74	10.7	43	220	29	240					
04	71	63	67	3.3	92	63	64	0	2	0541	1925	TS RA BR	0.81	0.0	0	28.83	29.83	7.9	54	270	37	270					
05	70	52	61	-2.9	80	56	59	4	0	0540	1926	RA BR	0.06	0.0	0	28.89	29.95	10.4	26	250	20	230					
06	68	46	57	-7.2	63	44	50	8	0	0539	1927	FG BR	T	0.0	0	29.02	30.04	5.5	40	280	21	270					
07	66	49	58	-6.5	53	39	48	7	0	0538	1928		0.00	0.0	0	28.98	30.02	9.1	22	290	17	270					
08	67	47	57	-7.7	60	44	51	8	0	0537	1928		0.00	0.0	0	29.02	30.06	8.0	19	220	14	210					
09	82	60	71	6.0	70	52	57	0	6	0536	1929	TS RA BR	0.97	0.0	0	28.90	29.90	9.9	47	190	36	200					
10	64	52	58	-7.3	87	56	57	7	0	0535	1930	RA BR	0.06	0.0	0	28.95	29.97	7.6	23	210	17	210					
11	71	48	60	-5.5	66	47	53	5	0	0534	1931		0.00	0.0	0	29.05	30.11	6.5	23	010	17	010					
12	61	47	54	-11.8	69	43	49	11	0	0533	1932	RA	0.02	0.0	0	29.14	30.20	12.0	36	050	25	050					
13	70	41*	56	-10.1	59	40	48	9	0	0532	1933		0.00	0.0	0	29.19	30.24	3.5	17	360	13	040					
14	73	44	59	-7.3	54	40	50	6	0	0532	1933		0.00	0.0	0	29.19	30.23	3.0	18	300	12	330					
15	75	43	59	-7.6	56	44	52	6	0	0531	1934		0.00	0.0	0	29.18	30.22	3.3	18	260	14	280					
16	77	57	67	0.1	63	53	59	0	2	0530	1935		0.00	0.0	0	29.15	30.19	3.2	20	280	10	260					
17	79	54	67	-0.1	67	55	60	0	2	0529	1936		0.00	0.0	0	29.13	30.15	4.0	24	260	15	220					
18	76	60	68	0.6	71	59	63	0	3	0529	1937		0.00	0.0	0	29.18	30.22	3.5	11	060	7	070					
19	84	61	73	5.3	61	58	64	0	8	0528	1937		0.00	0.0	0	29.21	30.25	4.0	15	180	13	180					
20	85	59	72	4.1	57	56	62	0	7	0527	1938		0.00	0.0	0	29.26	30.30	3.7	20	230	13	180					
21	86	56	71	2.8	58	55	62	0	6	0526	1939		0.00	0.0	0	29.34	30.37	3.2	15	350	12	340					
22	87	59	73	4.5	62	59	65	0	8	0526	1940		0.00	0.0	0	29.31	30.33	2.6	14	050	10	010					
23	88	65	77	8.3	58	59	66	0	12	0525	1940	RA	0.00	0.0	0	29.18	30.19	2.9	20	010	10	350					
24	89	62	76	7.0	60	60	66	0	11	0525	1941		0.00	0.0	0	29.13	30.15	2.5	12	300	9	340					
25	90	64	77	7.7	62	63	68	0	12	0524	1942		0.00	0.0	0	29.11	30.13	4.0	19	180	15	180					
26	90*	68	79	9.4	57	61	68	0	14	0524	1943		0.00	0.0	0	29.08	30.10	8.0	31	210	23	240					
27	88	68	78	8.2	63	63	68	0	13	0523	1943		0.00	0.0	0	29.01	30.01	5.5	18	210	15	240					
28	82	67	75	4.9	84	67	69	0	10	0523	1944	TS RA BR	1.29	0.0	0	28.84	29.83	10.5	54	200	38	180					
29	67	53	60	-10.4	81	55	57	5	0	0522	1945	RA DZ	0.03	0.0	0	28.85	29.92	9.7	26	330	18	360					
30	65	51	58	-12.7	70	48	52	7	0	0522	1945		0.00	0.0	0	29.11	30.17	8.1	25	340	17	020					
31	79	49	64	-6.9	67	52	57	1	0	0521	1946		0.00	0.0	0	29.21	30.24	4.1	19	230	14	240					
Monthly Averages Totals													3.62			29.07	30.10	6.0									
Departure from Normal (1981-2010)													-0.89														
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		93		35		3406		>=90°		<=32°		<=32°		<=0°		8		4		0		4	1				
Cooling		122		-3		148		2		0		0		0		8		4		0		4	1				
Date of 5-sec to 3-sec wind equipment change								Sea Level Pressure								Greatest...											
2007-04-17								Maximum				Date				Time				24-Hr...				Snow Depth			
								30.43				22				0913				Precip		Snowfall					
								29.69				03				1453				1.30		0.0		Date			
																28-29											
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 May 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	CLR:00	10.00		59	15.0	50	10.0	41	5.0	51	9	360		29.05	3	-0.01	30.08	FM-15	0.00	30.10
01	0100	4		9.94		59	15.0	50	10.0	41	5.0	51	9	360		29.04	3	-0.01	30.08	FM-12		30.10
01	0153	7	CLR:00	10.00		58	14.4	44	6.7	27	-2.8	31	9	350		29.04			30.07	FM-15	0.00	30.09
01	0253	7	CLR:00	10.00		54	12.2	44	6.7	31	-0.6	42	8	340		29.05			30.08	FM-15	0.00	30.10
01	0353	7	CLR:00	10.00		52	11.1	43	6.1	32	0.0	47	7	350		29.06	3	-0.01	30.09	FM-15	0.00	30.11
01	0400	4		9.94		52	11.1	43	6.1	32	0.0	47	7	350		29.05	3	-0.01	30.09	FM-12		30.11
01	0453	7	CLR:00	10.00		50	10.0	42	5.6	31	-0.6	48	9	360		29.06			30.09	FM-15	0.00	30.11
01	0553	7	CLR:00	10.00		48	8.9	41	5.0	32	0.0	54	3	030		29.07			30.10	FM-15	0.00	30.12
01	0653	7	CLR:00	10.00		51	10.6	44	6.7	35	1.7	54	0	000		29.10	3	-0.04	30.14	FM-15	0.00	30.15
01	0700	4		9.94		51	10.6	44	6.7	35	1.7	54	0	000		29.09	3	-0.04	30.14	FM-12		30.15
01	0753	7	CLR:00	10.00		54	12.2	44	6.7	33	0.6	45	9	020		29.12			30.15	FM-15	0.00	30.17
01	0853	7	CLR:00	10.00		57	13.9	47	8.3	36	2.2	45	8	060		29.11			30.15	FM-15	0.00	30.16
01	0953	7	CLR:00	10.00		61	16.1	49	9.4	36	2.2	39	7	020		29.11	0	-0.01	30.14	FM-15	0.00	30.16
01	1000	4		9.94		61	16.1	49	9.4	36	2.2	39	7	020		29.10	9	+0.01	30.14	FM-12		30.16
01	1053	7	CLR:00	10.00		64	17.8	50	10.0	35	1.7	34	0	000		29.12			30.15	FM-15	0.00	30.17
01	1153	7	CLR:00	10.00		67	19.4	50	10.0	31	-0.6	26	3	VRB		29.09			30.12	FM-15	0.00	30.14
01	1253	7	CLR:00	10.00		70	21.1	52	11.1	33	0.6	26	0	000		29.07	8	+0.04	30.10	FM-15	0.00	30.12
01	1300	4		9.94		70	21.1	52	11.1	33	0.6	26	0	000		29.06	8	+0.04	30.10	FM-12		30.12
01	1353	7	SCT:04 250	10.00		72	22.2	50	10.0	25	-3.9	17	5	340		29.04			30.06	FM-15	0.00	30.09
01	1453	7	SCT:04 250	10.00		74	23.3	50	10.0	21	-6.1	14	8	020		29.01			30.04	FM-15	0.00	30.06
01	1553	7	CLR:00	10.00		75	23.9	50	10.0	20	-6.7	12	6	360		28.98	6	+0.09	30.01	FM-15	0.00	30.03
01	1600	4		9.94		75	23.9	50	10.0	20	-6.7	12	6	360		28.97	6	+0.09	30.01	FM-12		30.03
01	1653	7	FEW:02 250	10.00		75	23.9	51	10.6	24	-4.4	15	0	000		28.97			30.00	FM-15	0.00	30.02
01	1753	7	FEW:02 250	10.00		75	23.9	51	10.6	22	-5.6	14	0	000		28.95			29.98	FM-15	0.00	30.00
01	1853	7	SCT:04 250	10.00		72	22.2	50	10.0	25	-3.9	17	5	080		28.94	8	+0.04	29.97	FM-15	0.00	29.99
01	1900	4		9.94		72	22.2	50	10.0	25	-3.9	17	5	080		28.93	8	+0.04	29.97	FM-12		29.99
01	1953	7	SCT:04 250	10.00		68	20.0	50	10.0	31	-0.6	25	0	000		28.94			29.97	FM-15	0.00	29.99
01	2053	7	SCT:04 250	10.00		64	17.8	50	10.0	35	1.7	34	3	140		28.95			29.98	FM-15	0.00	30.00
01	2153	7	SCT:04 250	10.00		59	15.0	50	10.0	40	4.4	49	0	000		28.96	3	-0.02	30.00	FM-15	0.00	30.01
01	2200	4		9.94		59	15.0	50	10.0	40	4.4	49	0	000		28.95	3	-0.02	30.00	FM-12		30.01
01	2253	7	SCT:04 250	10.00		58	14.4	49	9.4	40	4.4	51	0	000		28.96			29.99	FM-15	0.00	30.01
01	2353	7	CLR:00	10.00		54	12.2	47	8.3	39	3.9	57	5	050		28.96			29.99	FM-15	0.00	30.01

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

Local Climatological Data
Hourly Remarks
May 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	MET11305/01/21 00:53:02 METAR KTYS 010553Z 36008KT 10SM CLR 15/05 A3010 RMK AO2 SLP185 T01500050 10217 20150 53005 (BB)
01	0100	SYN08072326 32966 03608 10150 20050 39833 40185 53005 90553 333 10222 20139 555 90106=
01	0153	MET09605/01/21 01:53:02 METAR KTYS 010653Z 35008KT 10SM CLR 14/M03 A3009 RMK AO2 SLP183 T01441028 (BB)
01	0253	MET09605/01/21 02:53:02 METAR KTYS 010753Z 34007KT 10SM CLR 12/M01 A3010 RMK AO2 SLP186 T01221006 (BB)
01	0353	MET10105/01/21 03:53:02 METAR KTYS 010853Z 35006KT 10SM CLR 11/00 A3011 RMK AO2 SLP189 T01110000 53003 (BB)
01	0400	SYN06472326 32966 03506 10111 20000 39837 40189 53003 90853 555 90109=
01	0453	MET09605/01/21 04:53:02 METAR KTYS 010953Z 36008KT 10SM CLR 10/M01 A3011 RMK AO2 SLP189 T01001006 (BB)
01	0553	MET09505/01/21 05:53:02 METAR KTYS 011053Z 03003KT 10SM CLR 09/00 A3012 RMK AO2 SLP194 T00890000 (BB)
01	0653	MET11305/01/21 06:53:02 METAR KTYS 011153Z 00000KT 10SM CLR 11/02 A3015 RMK AO2 SLP205 T01060017 10150 20078 53014 (BB)
01	0700	SYN08072326 32966 00000 10106 20017 39850 40205 53014 91153 333 10250 20078 555 90112=
01	0753	MET09505/01/21 07:53:02 METAR KTYS 011253Z 02008KT 10SM CLR 12/01 A3017 RMK AO2 SLP209 T01220006 (NS)
01	0853	MET09505/01/21 08:53:02 METAR KTYS 011353Z 06007KT 10SM CLR 14/02 A3016 RMK AO2 SLP209 T01390022 (NS)
01	0953	MET10105/01/21 09:53:02 METAR KTYS 011453Z 02006KT 10SM CLR 16/02 A3016 RMK AO2 SLP208 T01610022 50003 (NS)
01	1000	SYN06472326 32966 00206 10161 20022 39853 40208 50003 91453 555 90115=
01	1053	MET09505/01/21 10:53:02 METAR KTYS 011553Z 00000KT 10SM CLR 18/02 A3017 RMK AO2 SLP210 T01780017 (NS)
01	1153	MET09605/01/21 11:53:02 METAR KTYS 011653Z VRB03KT 10SM CLR 19/M01 A3014 RMK AO2 SLP200 T01941006 (NS)
01	1253	MET11305/01/21 12:53:02 METAR KTYS 011753Z 00000KT 10SM CLR 21/01 A3012 RMK AO2 SLP192 T02110006 10211 20106 58015 (NS)
01	1300	SYN08072326 32966 00000 10211 20006 39840 40192 58015 91753 333 10211 20106 555 90118=
01	1353	MET09905/01/21 13:53:02 METAR KTYS 011853Z 34004KT 10SM SCT250 22/M04 A3009 RMK AO2 SLP181 T02221039 (NS)
01	1453	MET09905/01/21 14:53:02 METAR KTYS 011953Z 02007KT 10SM SCT250 23/M06 A3006 RMK AO2 SLP172 T02331061 (NS)
01	1553	MET10205/01/21 15:53:02 METAR KTYS 012053Z 36005KT 10SM CLR 24/M07 A3003 RMK AO2 SLP161 T02391067 56030 (NS)
01	1600	SYN06472326 32966 03605 10239 21067 39810 40161 56030 92053 555 90121=
01	1653	MET09905/01/21 16:53:02 METAR KTYS 012153Z 00000KT 10SM FEW250 24/M04 A3002 RMK AO2 SLP159 T02391044 (GW)
01	1753	MET09905/01/21 17:53:02 METAR KTYS 012253Z 00000KT 10SM FEW250 24/M06 A3000 RMK AO2 SLP154 T02391056 (GW)
01	1853	MET11705/01/21 18:53:02 METAR KTYS 012353Z 08004KT 10SM SCT250 22/M04 A2999 RMK AO2 SLP148 T02221039 10244 20211 58013 (GW)
01	1900	SYN08072326 32966 40804 10222 21039 39797 40148 58013 92353 333 10244 20078 555 90200=
01	1953	MET09405/01/21 19:53:01 METAR KTYS 020053Z 00000KT 10SM SCT250 20/M01 A2999 RMK AO2 SLP149 T02001006
01	2053	MET09305/01/21 20:53:01 METAR KTYS 020153Z 14003KT 10SM SCT250 18/02 A3000 RMK AO2 SLP154 T01780017
01	2153	MET09905/01/21 21:53:01 METAR KTYS 020253Z 00000KT 10SM SCT250 15/04 A3001 RMK AO2 SLP158 T01500044 53008
01	2200	SYN06472326 32966 40000 10150 20044 39804 40158 53008 90253 555 90203=
01	2253	MET09305/01/21 22:53:02 METAR KTYS 020353Z 00000KT 10SM SCT250 14/04 A3001 RMK AO2 SLP156 T01440044
01	2353	MET10005/01/21 23:53:02 METAR KTYS 020453Z 05004KT 10SM CLR 12/04 A3001 RMK AO2 SLP156 T01220039 402440078

Local Climatological Data Hourly Precipitation May 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	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					02
03	T						0.03	T	0.02	T			T			0.03	T	0.02	0.28			T	T	T	03
04					0.02	0.21	0.04	0.01	0.01	0.07	0.09	0.18	0.16	0.01		T						T	0.01	T	04
05											0.04	0.02													05
06																								T	06
07																									07
08																									08
09																T	T	T	T	0.10	0.11	0.39s	0.26	0.11	09
10						T	0.02s	0.01	0.01	T	0.01	0.01													10
11																									11
12					T	0.01	T	0.01	T																12
13																									13
14																									14
15																									15
16																									16
17																									17
18													M												18
19																									19
20																									20
21																									21
22																									22
23																									23
24																									24
25																									25
26																									26
27																									27
28								0.17	T				T	T		0.13	0.72	0.08	0.03	0.03				0.13	28
29	0.01		T	T					0.02	T													T	T	29
30																									30
31																									31

Maximum Short Duration Precipitation

Time Period (Minutes)	5	10	15	20	30	45	60	80	100	120	150	180
Precipitation (inches)	0.29	0.48	0.58	0.64	0.69	0.71	0.74	0.81	0.85	0.90	0.93	0.95
Ending Date Time (yyyy-mm-dd hh:mi)	2021-05-28 16:34	2021-05-28 16:38	2021-05-28 16:43	2021-05-28 16:48	2021-05-28 16:57	2021-05-28 17:12	2021-05-28 17:28	2021-05-28 16:53	2021-05-28 17:12	2021-05-28 17:28	2021-05-28 17:46	2021-05-28 18:14

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