

## Local Climatological Data Daily Summary August 2017

Generated on 04/11/2018

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	83	62	72	-6.5	70	63	67	0	7	0543	1941		0.00	0.0	0	29.05	30.07	1.3	9	300	8	300			
02	87	68	78	-0.4	67	64	68	0	13	0544	1940		0.00	0.0	0	29.05	30.06	3.6	14	300	10	280			
03	88	64	76	-2.4	61	61	67	0	11	0545	1939		0.00	0.0	0	29.05	30.05	4.5	15	260	13	250			
04	86	68	77	-1.4	76	65	68	0	12	0546	1938	TS RA BR	0.30	0.0	0	28.98	30.00	8.1	24	310	17	310			
05	81	62	72	-6.4	58	55	61	0	7	0547	1937		0.00	0.0	0	29.03	30.06	5.6	15	030	13	360			
06	88	56*	72	-6.4	71	62	66	0	7	0547	1936	RA TS	0.06	0.0	0	29.00	30.01	3.9	30	220	25	230			
07	79	70	74	-4.4	90	70	71	0	9	0548	1935	TS RA BR	1.66	0.0	0	28.92	29.94	10.2	27	220	23	210			
08	82	68	75	-3.4	72	64	68	0	10	0549	1934	RA	T	0.0	0	29.00	30.03	7.1	20	020	16	040			
09	86	64	75	-3.3	69	63	67	0	10	0550	1933		T	0.0	0	29.07	30.10	5.7	19	250	15	240			
10	84	70	77	-1.3	83	69	71	0	12	0550	1932	RA BR	0.28	0.0	0	29.10	30.11	3.5	17	220	13	210			
11	84	71	78	-0.3	80	70	72	0	13	0551	1930	RA BR	T	0.0	0	29.01	30.02	4.7	24	270	18	280			
12	86	71	78	-0.3	83	71	72	0	13	0552	1929	TS RA BR FG	2.00	0.0	0	28.92	29.94	3.2	41	270	30	330			
13	86	70	78	-0.2	78	70	72	0	13	0553	1928	BR FG	0.00	0.0	0	28.93	29.96	2.3	12	050	9	050			
14	87	71	79	0.8	81	71	73	0	14	0554	1927	RA BR	0.01	0.0	0	28.89	29.90	4.0	19	210	15	230			
15	88	74	81	2.9	75	70	73	0	16	0554	1926		T	0.0	0	28.89	29.92	6.3	16	240	13	250			
16	87	71	79	0.9	78	71	73	0	14	0555	1925		0.02	0.0	0	28.98	30.01	4.5			9	230			
17	89	72	80	2.0	79	72	74	0	15	0556	1923	RA	0.24	0.0	0	28.98	29.98	7.3	26	200	22	210			
18	88	71	80	2.0	71	68	72	0	15	0557	1922	TS RA BR	0.43	0.0	0	28.92	29.93	7.8	28	280	20	270			
19	88	65	76	-1.9	67	64	69	0	11	0558	1921		0.00	0.0	0	28.95	29.98	1.5	11	130	8	310			
20	91	66	78	0.2	66	65	69	0	13	0558	1920		0.00	0.0	0	29.04	30.07	2.0	13	310	9	310			
21	90	68	79	1.3	68	67	71	0	14	0559	1918		0.00	0.0	0	29.11	30.13	1.9	13	330	7	330			
22	91*	71	81	3.4	66	67	72	0	16	0600	1917		0.00	0.0	0	29.02	30.01	7.2	24	220	16	240			
23	87	71	79	1.5	65	64	69	0	14	0601	1916		0.00	0.0	0	28.90	29.92	6.9	15	220	13	220			
24	83	63	73	-4.4	58	56	63	0	8	0601	1915		0.00	0.0	0	28.94	29.96	8.1	21	010	16	050			
25	81	63	72	-5.2	61	56	62	0	7	0602	1913		0.00	0.0	0	29.04	30.08	8.9	19	030	15	030			
26	84	63	74	-3.1	64	59	64	0	9	0603	1912		0.00	0.0	0	29.08	30.11	4.6	13	010	10	360			
27	86	63	74	-2.9	72	64	67	0	9	0604	1911		0.00	0.0	0	29.03	30.04	4.0	20	190	17	200			
28	84	63	74	-2.7	63	62	67	0	9	0605	1909		0.00	0.0	0	29.00	30.00	6.2	17	030	14	360			
29	84	62	73	-3.5	64	59	64	0	8	0605	1908		0.00	0.0	0	28.95	29.97	3.6	15	020	10	330			
30	84	63	74	-2.3	78	64	67	0	9	0606	1906	RA BR	0.18	0.0	0	28.99	30.02	3.9	26	220	23	210			
31	74	68	71	-5.1	87	67	69	0	6	0607	1905	RA BR	0.77	0.0	0	28.98	29.99	5.0	18	190	16	200			
<b>Monthly Averages   Totals</b>													5.95			29.00	30.01	5.1							
<b>Departure from Normal (1981-2010)</b>													2.68												
<b>Degree Days</b>											<b>Number of days with...</b>														
<b>Monthly</b>					<b>Season-to-date</b>					<b>Temperature</b>				<b>Precipitation</b>		<b>Snow</b>		<b>Weather</b>							
<b>Total</b>		<b>Departure</b>			<b>Total</b>		<b>Departure</b>			<b>Max</b>		<b>Min</b>		<b>&gt;=0.01"</b>		<b>&gt;=0.1"</b>		<b>&gt;=1"</b>		<b>T-Storms</b>		<b>Heavy Fog</b>			
Heating		0			0			0			>=90°		<=32°		<=32°		<=0°		11		8		0		
Cooling		344			-53			1253			3		0		0		0		11		8		0		
<b>Date of 5-sec to 3-sec wind equipment change</b>								<b>Sea Level Pressure</b>					<b>Greatest...</b>												
2007-04-17								<b>Maximum</b>		30.20			<b>Date</b>		21		<b>Time</b>		0853		<b>24-Hr...</b>		<b>Snow Depth</b>		
								<b>Minimum</b>		29.84			<b>Date</b>		14		<b>Time</b>		1812		<b>Precip</b>		<b>Snowfall</b>		
													<b>Date</b>		12-12		<b>Time</b>				<b>Precip</b>		<b>Snowfall</b>		
<b>Station Augmentation</b>																									
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																									

U.S. Department of Commerce  
National Oceanic & Atmospheric Administration  
National Environmental Satellite, Data, and Information Service  
Current Location: Elev: 962 ft. Lat: 35.8181° N Lon: -83.9858° W  
Station: **KNOXVILLE AIRPORT, TN US 13891**

### Local Climatological Data Hourly Observations August 2017

Generated on 04/11/2018

National Centers for Environmental Information  
151 Patton Avenue  
Asheville, North Carolina 28801

Date	Time (LST)	Station Type	Sky Conditions	Visi-bility	Weather Type (see documentation) AU   AW   MW	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)
						(F)	(C)	(F)	(C)	(F)	(C)											
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		70	21.1	64	17.7	60	15.6	71	3	030		29.05	8	+0.00	30.06	FM-15	0.00	30.10
01	0100	4		9.94		70	21.1	64	17.7	60	15.6	71	3	030		29.04	8	+0.00	30.06	FM-12		30.10
01	0153	7	CLR:00	10.00		67	19.4	64	17.7	62	16.7	84	0	000		29.04			30.05	FM-15	0.00	30.09
01	0253	7	CLR:00	10.00		67	19.4	64	17.7	62	16.7	84	0	000		29.04			30.06	FM-15	0.00	30.09
01	0353	7	SCT:04 250	10.00		64	17.8	61	16.1	59	15.0	84	0	000		29.04	5	+0.00	30.06	FM-15	0.00	30.09
01	0400	4		9.94		64	17.8	61	16.1	59	15.0	84	0	000		29.03	5	+0.00	30.06	FM-12		30.09
01	0453	7	SCT:04 250	10.00		63	17.2	61	15.9	59	15.0	87	0	000		29.06			30.07	FM-15	0.00	30.11
01	0553	7	FEW:02 80 SCT:04 250	10.00		64	17.8	61	16.1	59	15.0	84	0	000		29.07			30.08	FM-15	0.00	30.12
01	0653	7	SCT:04 100 BKN:07 250	10.00		66	18.9	63	17.2	61	16.1	84	0	000		29.08	3	-0.04	30.10	FM-15	0.00	30.13
01	0700	4		9.94		66	18.9	63	17.2	61	16.1	84	0	000		29.07	3	-0.04	30.10	FM-12		30.13
01	0753	7	FEW:02 100 BKN:07 150 BKN:07 250	10.00		69	20.6	64	17.8	61	16.1	76	0	000		29.08			30.10	FM-15	0.00	30.13
01	0853	7	BKN:07 150 BKN:07 250	10.00		73	22.8	66	18.9	62	16.7	69	0	000		29.09			30.10	FM-15	0.00	30.14
01	0953	7	FEW:02 60 BKN:07 150 BKN:07 250	10.00		77	25.0	68	20.0	63	17.2	62	0	000		29.09	3	-0.01	30.11	FM-15	0.00	30.14
01	1000	4	57	9.94		77	25.0	68	20.0	63	17.2	62	0	000		29.08	3	-0.01	30.11	FM-12		30.14
01	1053	7	FEW:02 60 SCT:04 150 BKN:07 250	10.00		79	26.1	68	19.8	61	16.1	54	5	270		29.09			30.10	FM-15	0.00	30.14
01	1153	7	FEW:02 60 SCT:04 150 BKN:07 250	10.00		79	26.1	69	20.7	64	17.8	60	7	320		29.08			30.10	FM-15	0.00	30.13
01	1253	7	FEW:02 45 SCT:04 150 BKN:07 250	10.00		79	26.1	69	20.4	63	17.2	58	5	270		29.08	8	+0.01	30.10	FM-15	0.00	30.13
01	1300	4	41	9.94		79	26.1	69	20.4	63	17.2	58	5	270		29.07	8	+0.01	30.10	FM-12		30.13
01	1353	7	FEW:02 45 BKN:07 130 OVC:08 250	10.00		80	26.7	70	20.9	64	17.8	58	0	000		29.06			30.08	FM-15	0.00	30.11
01	1453	7	FEW:02 45 SCT:04 130 OVC:08 250	10.00		82	27.8	70	21.2	64	17.8	55	0	000		29.04			30.06	FM-15	0.00	30.09
01	1553	7	FEW:02 45 SCT:04 130 OVC:08 250	10.00		81	27.2	70	21.1	64	17.8	57	0	000		29.03	6	+0.04	30.05	FM-15	0.00	30.08
01	1600	4	41	9.94		81	27.2	70	21.1	64	17.8	57	0	000		29.02	6	+0.04	30.05	FM-12		30.08
01	1653	7	FEW:02 45 SCT:04 130 BKN:07 250	10.00		83	28.3	70	21.1	63	17.2	51	0	000		29.03			30.05	FM-15	0.00	30.08
01	1753	7	FEW:02 45 SCT:04 130 BKN:07 250	10.00		81	27.2	70	21.1	64	17.8	57	5	320		29.02			30.04	FM-15	0.00	30.07
01	1853	7	FEW:02 45 SCT:04 130 BKN:07 250	10.00		80	26.7	70	20.9	64	17.8	58	0	000		29.02	7	+0.01	30.04	FM-15	0.00	30.07
01	1900	4	41	9.94		80	26.7	70	20.9	64	17.8	58	0	000		29.01	7	+0.01	30.04	FM-12		30.07

01	1953	7	FEW:02 45 FEW:02 80 SCT:04 130	10.00		78	25.6	70	21.2	66	18.9	67	0	000		29.03			30.05	FM-15	0.00	30.08
01	2053	7	FEW:02 45 SCT:04 80 BKN:07 250	10.00		74	23.3	69	20.8	67	19.4	79	0	000		29.05			30.06	FM-15	0.00	30.10
01	2153	7	FEW:02 80 SCT:04 130 OVC:08 250	10.00		73	22.8	69	20.6	67	19.4	81	0	000		29.05	0	-0.03	30.06	FM-15	0.00	30.10
01	2200	4	74	9.94		73	22.8	69	20.6	67	19.4	81	0	000		29.04	9	0.03	30.06	FM-12		30.10
01	2253	7	FEW:02 80 BKN:07 150 OVC:08 250	10.00		73	22.8	69	20.6	67	19.4	81	0	000		29.05			30.07	FM-15	0.00	30.10
01	2353	7	BKN:07 80 OVC:08 250	10.00		72	22.2	68	20.1	66	18.9	82	3	060		29.05			30.07	FM-15	0.00	30.10

U.S. Department of Commerce  
National Oceanic & Atmospheric Administration  
National Environmental Satellite, Data, and Information Service  
Current Location: Elev: 962 ft. Lat: 35.8181° N Lon: -83.9858° W  
Station: **KNOXVILLE AIRPORT, TN US 13891**

**Local Climatological Data**  
**Hourly Remarks**  
**August 2017**

Generated on 04/11/2018

National Centers for Environmental Information  
151 Patton Avenue  
Asheville, North Carolina 28801

Date	Time (LST)	Remarks
01	0053	MET11408/01/17 00:53:02 METAR KTYS 010553Z 03003KT 10SM CLR 21/16 A3010 RMK AO2 SLP179 T02110156 10278 20200 58001 (JTD)
01	0100	SYN08072326 32966 00303 10211 20156 39833 40179 58001 90553 333 10283 20178 555 90106=
01	0153	MET09608/01/17 01:53:02 METAR KTYS 010653Z 00000KT 10SM CLR 19/17 A3009 RMK AO2 SLP177 T01940167 (JTD)
01	0253	MET09608/01/17 02:53:02 METAR KTYS 010753Z 00000KT 10SM CLR 19/17 A3009 RMK AO2 SLP178 T01940167 (JTD)
01	0353	MET10508/01/17 03:53:02 METAR KTYS 010853Z 00000KT 10SM SCT250 18/15 A3009 RMK AO2 SLP180 T01780150 55000 (JTD)
01	0400	SYN06472326 32966 40000 10178 20150 39830 40180 55000 90853 555 90109=
01	0453	MET09908/01/17 04:53:02 METAR KTYS 010953Z 00000KT 10SM SCT250 17/15 A3011 RMK AO2 SLP184 T01720150 (JTD)
01	0553	MET10608/01/17 05:53:02 METAR KTYS 011053Z 00000KT 10SM FEW080 SCT250 18/15 A3012 RMK AO2 SLP187 T01780150 (JTD)
01	0653	MET12408/01/17 06:53:02 METAR KTYS 011153Z 00000KT 10SM SCT100 BKN250 19/16 A3013 RMK AO2 SLP192 T01890161 10211 20167 53012 (JTD)
01	0700	SYN08072326 32966 60000 10189 20161 39843 40192 53012 91153 333 10311 20167 555 90112=
01	0753	MET11208/01/17 07:53:02 METAR KTYS 011253Z 00000KT 10SM FEW100 BKN150 BKN250 21/16 A3013 RMK AO2 SLP193 T02060161 (NS)
01	0853	MET10508/01/17 08:53:02 METAR KTYS 011353Z 00000KT 10SM BKN150 BKN250 23/17 A3014 RMK AO2 SLP194 T02280167 (NS)
01	0953	MET11808/01/17 09:53:02 METAR KTYS 011453Z 00000KT 10SM FEW060 BKN150 BKN250 25/17 A3014 RMK AO2 SLP196 T02500172 53004 (NS)
01	1000	SYN06472326 32766 60000 10250 20172 39846 40196 53004 91453 555 90115=
01	1053	MET11208/01/17 10:53:02 METAR KTYS 011553Z 27004KT 10SM FEW060 SCT150 BKN250 26/16 A3014 RMK AO2 SLP194 T02610161 (NS)
01	1153	MET11208/01/17 11:53:02 METAR KTYS 011653Z 32006KT 10SM FEW060 SCT150 BKN250 26/18 A3013 RMK AO2 SLP194 T02610178 (NS)
01	1253	MET13008/01/17 12:53:02 METAR KTYS 011753Z 27004KT 10SM FEW045 SCT150 BKN250 26/17 A3013 RMK AO2 SLP192 T02610172 10267 20189 58004 (NS)
01	1300	SYN08072326 32666 62704 10261 20172 39843 40192 58004 91753 333 10267 20189 555 90118=
01	1353	MET11208/01/17 13:53:02 METAR KTYS 011853Z 00000KT 10SM FEW045 BKN130 OVC250 27/18 A3011 RMK AO2 SLP185 T02670178 (NS)
01	1453	MET11208/01/17 14:53:02 METAR KTYS 011953Z 00000KT 10SM FEW045 SCT130 OVC250 28/18 A3009 RMK AO2 SLP180 T02780178 (NS)
01	1553	MET11908/01/17 15:53:02 METAR KTYS 012053Z 00000KT 10SM FEW045 SCT130 OVC250 27/18 A3008 RMK AO2 SLP177 T02720178 56015 (ALG)
01	1600	SYN06472326 32666 80000 10272 20178 39827 40177 56015 92053 555 90121=
01	1653	MET11308/01/17 16:53:02 METAR KTYS 012153Z 00000KT 10SM FEW045 SCT130 BKN250 28/17 A3008 RMK AO2 SLP176 T02830172 (ALG)
01	1753	MET11308/01/17 17:53:02 METAR KTYS 012253Z 32004KT 10SM FEW045 SCT130 BKN250 27/18 A3007 RMK AO2 SLP174 T02720178 (ALG)
01	1853	MET13108/01/17 18:53:02 METAR KTYS 012353Z 00000KT 10SM FEW045 SCT130 BKN250 27/18 A3007 RMK AO2 SLP172 T02670178 10283 20261 57004 (ALG)
01	1900	SYN08072326 32666 60000 10267 20178 39823 40172 57004 92353 333 10283 20167 555 90200=
01	1953	MET10708/01/17 19:53:01 METAR KTYS 020053Z 00000KT 10SM FEW045 FEW080 SCT130 26/19 A3008 RMK AO2 SLP177 T02560189
01	2053	MET10708/01/17 20:53:02 METAR KTYS 020153Z 00000KT 10SM FEW045 SCT080 BKN250 23/19 A3010 RMK AO2 SLP181 T02330194
01	2153	MET11308/01/17 21:53:02 METAR KTYS 020253Z 00000KT 10SM FEW080 SCT130 OVC250 23/19 A3010 RMK AO2 SLP181 T02280194 50009
01	2200	SYN06472326 32866 80000 10228 20194 39833 40181 50009 90253 555 90203=
01	2253	MET10708/01/17 22:53:02 METAR KTYS 020353Z 00000KT 10SM FEW080 BKN150 OVC250 23/19 A3010 RMK AO2 SLP183 T02280194
01	2353	MET11008/01/17 23:53:02 METAR KTYS 020453Z 06003KT 10SM BKN080 OVC250 22/19 A3010 RMK AO2 SLP182 T02220189 402830167

**Local Climatological Data**  
**Hourly Precipitation**  
**August 2017**

Generated on 04/11/2018

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														T	0.08	0.01				T	0.21	T				04		
05																										05		
06																										06		
07	0.01		0.04	0.21		T				0.03	T	0.01	0.02	0.01						0.90s	0.10	T	0.32	0.01	T	0.01	0.01	07
08		T	T	T	T																						08	
09																											09	
10								T	0.08	0.20	T	T	T	T											T		10	
11	T	T			T																						11	
12					0.03	0.15	0.02	T							0.98	0.81	0.01										12	
13																											13	
14							0.01	T								T	T				T	T				T	14	
15																											15	
16																											16	
17								T							0.02												17	
18					T	T				0.11	0.32						0.23s	0.01									18	
19																											19	
20																											20	
21																											21	
22																											22	
23																											23	
24																											24	
25																											25	
26																											26	
27																											27	
28																											28	
29																											29	
30																	T	0.03	0.01	0.12	0.02	T	T	T			30	
31		T	T	0.01s	0.02			T							0.65	0.07										T	31	

**Maximum Short Duration Precipitation**

Time Period (Minutes)	5	10	15	20	30	45	60	80	100	120	150	180
Precipitation (inches)	0.42	0.65	0.88	1.08	1.37	1.76	1.79	1.79	1.80	1.80	1.80	1.80
Ending Date Time (yyyy-mm-dd hh:mi)	2017-08-12 13:47	2017-08-07 18:54	2017-08-12 13:57	2017-08-12 14:02	2017-08-12 14:12	2017-08-12 14:26	2017-08-12 14:28	2017-08-12 14:28	2017-08-12 15:05	2017-08-12 15:05	2017-08-12 15:05	2017-08-12 15:05

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