

## Local Climatological Data Daily Summary October 2017

Generated on 11/11/2017

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	77	49	63	-1.9				2	0	0632	1821		0.00			29.26		1.0	11	080	8	070		
02	79	47	63	-1.6				2	0	0633	1819	RA	0.00s			29.33		1.1	10	330	8	070		
03	82	51	66	1.8				0	1	0633	1818	FG BR	0.00			29.44		1.4	11	090	8	090		
04	82	53	68	4.2				0	3	0634	1817	FG BR	0.00			29.43		1.0	10	090	7	080		
05	84	53	68	4.6				0	3	0635	1815	RA BR	0.00s			29.26		0.1	11	090	7	090		
06	83	55	69	6.0				0	4	0636	1814		0.00			29.15		1.0	10	190	8	190		
07	86	58	72	9.3				0	7	0637	1812	RA	T			29.02		1.5	13	220	8	170		
08	74	69	72	9.7				0	7	0638	1811	RA BR	2.09			28.87		3.0	16	220	9	230		
09	87*	71	79	17.0				0	14	0638	1810		T			28.96		2.2	14	230	8	220		
10	82	70	76	14.4				0	11	0639	1808	RA BR	0.39			29.10		0.1	19	250	9	240		
11	86	65	76	14.8				0	11	0640	1807	RA BR	0.24			29.08		1.6	12	180	8	200		
12	80	56	68	7.1				0	3	0641	1805		0.00			29.13		1.2	9	080	7	100		
13	84	55	70	9.5				0	5	0642	1804	RA FG BR	T			29.20		1.0	14	220	7	260		
14	76	64	70	9.8				0	5	0643	1803		0.00			29.24		1.5	11	280	8	280		
15	81	59	70	10.2				0	5	0644	1801	RA BR	0.42			29.15		2.3	*		7	180		
16	65	46	56	-3.5				9	0	0644	1800		0.00			29.26		3.4	19	360	12	070		
17	67	42	54	-5.1				11	0	0645	1759	RA	0.00s			29.34		0.8	12	080	9	100		
18	71	42	56	-2.8				9	0	0646	1757	RA FG BR	0.00s			29.34		0.8	8	080	6	140		
19	73	42	58	-0.5				7	0	0647	1756	RA FG BR	0.00s			29.32		0.7	9	170	6	170		
20	77	46	62	3.9				3	0	0648	1755	RA FG BR	0.00s			29.29		0.3	9	080	6	080		
21	77	48	62	4.2				3	0	0649	1754	RA FG BR	0.00s			29.29		0.5	8	160	6	190		
22	79	47	63	5.6				2	0	0650	1753	RA FG BR	T			29.24		1.5	17	200	9	150		
23	68	51	60	2.9				5	0	0651	1751	RA FG BR	1.35			28.94		4.0	*		9s	270s		
24	63	46	54	-2.8				11	0	0652	1750	RA	T			28.94		3.0	22	270	14	260		
25	59	40	50	-6.4				15	0	0653	1749		0.00			28.95		2.4	20	270	13	260		
26	65	35	50	-6.1				15	0	0654	1748	RA FG BR	0.00s			29.00		1.4	11	210	7	220		
27	73	41	57	1.3				8	0	0655	1747	RA	T			29.01		3.6	23	180	14	180		
28	65	41	53	-2.4				12	0	0655	1746	RA BR	1.15			28.90		3.2	20	180	13	170		
29	42	33	38	-17.1				27	0	0656	1744		0.00			28.89		4.0	21	300	13	320		
30	61	29*	45	-9.7				20	0	0657	1743		0.00			29.00		2.3	17	210	10	210		
31	63	36	50	-4.4				15	0	0658	1742		T			29.17		0.1	8	270	6	270		
<b>Monthly Averages   Totals</b>													2.50s			29.15	30.11	1.6						
<b>Departure from Normal (1981-2010)</b>													-0.42s											

Degree Days				Number of days with...											
Monthly		Season-to-date		Temperature				Precipitation		Snow	Weather				
Total	Departure	Total	Departure	Max		Min									
Heating	Cooling	>=90°	<=32°	<=32°	<=0°	>=0.01"	>=0.1"	>=1"	T-Storms	Heavy Fog					
177	78	-22	1576	0	0	1	0	2s	2s						
<b>Date of 5-sec to 3-sec wind equipment change</b>				<b>Sea Level Pressure</b>				<b>Greatest...</b>							
2007-03-22				<b>Maximum</b>		30.51		<b>Date</b>		03		<b>Time</b>		1021	
				<b>Minimum</b>		29.63		08		1942		Precip		Snowfall	
								1.35s							
										Date					
								23-23							
<b>Station Augmentation</b>															
Name: OAK RIDGE ATDD, TN Lat: 35.998 Lon: -84.2192 Elevation: 1019ft Distance: 1.5mi SW Elements: TEMP, PRECIP, SNOW Equipment: PRECIP-MODEL TRP525M, TEMP-VAISALA HMP35C, SNOWBOARD, SNOWSTICK															

U.S. Department of Commerce  
 National Oceanic & Atmospheric Administration  
 National Environmental Satellite, Data, and Information Service  
 Current Location: Elev: 900 ft. Lat: 36.0230° N Lon: -84.2337° W  
 Station: OAK RIDGE ASOS, TN US 53868

### Local Climatological Data Hourly Observations October 2017

Generated on 11/11/2017

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)	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)	(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		57	13.9	52	11.3	48	8.9	72	0	000		29.26	0	-0.01	30.22	FM-15	0.00	30.24
01	0153	7	CLR:00	10.00		54	12.2	51	10.5	48	8.9	80	0	000		29.26			30.22	FM-15	0.00	30.24
01	0253	7	CLR:00	10.00		53	11.7	51	10.5	49	9.4	86	0	000		29.26			30.22	FM-15	0.00	30.24
01	0353	7	CLR:00	10.00		52	11.1	50	10.0	48	8.9	86	0	000		29.26	7	+0.00	30.22	FM-15	0.00	30.24
01	0453	7	CLR:00	10.00		51	10.6	49	9.7	48	8.9	89	0	000		29.27			30.24	FM-15	0.00	30.25
01	0553	7	CLR:00	10.00		50	10.0	49	9.4	48	8.9	93	0	000		29.28			30.25	FM-15	0.00	30.26
01	0653	7	CLR:00	10.00		50	10.0	49	9.4	48	8.9	93	0	000		29.30	3	-0.04	30.27	FM-15	0.00	30.28
01	0753	7	CLR:00	10.00		55	12.8	52	11.0	49	9.4	80	0	000		29.32			30.29	FM-15	0.00	30.30
01	0853	7	CLR:00	10.00		60	15.6	53	11.7	47	8.3	62	5	VRB		29.33			30.29	FM-15	0.00	30.31
01	0953	7	CLR:00	10.00		64	17.8	55	13.0	48	8.9	56	6	070		29.33	1	-0.02	30.29	FM-15	0.00	30.31
01	1053	7	CLR:00	10.00		67	19.4	57	13.9	49	9.4	53	5	080		29.31			30.27	FM-15	0.00	30.29
01	1153	7	CLR:00	10.00		68	20.0	57	14.1	49	9.4	51	5	130		29.29			30.25	FM-15	0.00	30.27
01	1253	7	CLR:00	10.00		73	22.8	60	15.5	50	10.0	44	3	VRB		29.27	8	+0.06	30.22	FM-15	0.00	30.25
01	1353	7	CLR:00	10.00		74	23.3	60	15.7	50	10.0	43	0	000		29.23			30.19	FM-15	0.00	30.21
01	1453	7	CLR:00	10.00		75	23.9	61	15.9	50	10.0	41	0	000		29.21			30.17	FM-15	0.00	30.19
01	1553	7	CLR:00	10.00		75	23.9	61	15.9	50	10.0	41	0	000		29.20	6	+0.06	30.16	FM-15	0.00	30.18
01	1653	7	CLR:00	10.00		76	24.4	61	15.9	49	9.4	39	0	000		29.19			30.16	FM-15	0.00	30.17
01	1753	7	CLR:00	10.00		71	21.7	59	15.1	50	10.0	47	0	000		29.20			30.16	FM-15	0.00	30.18
01	1853	7	CLR:00	10.00		63	17.2	58	14.4	54	12.2	73	0	000		29.20	3	-0.00	30.18	FM-15	0.00	30.18
01	1953	7	CLR:00	10.00		61	16.1	58	14.2	55	12.8	81	0	000		29.23			30.20	FM-15	0.00	30.21
01	2053	7	CLR:00	10.00		58	14.4	56	13.2	54	12.2	87	0	000		29.25			30.22	FM-15	0.00	30.23
01	2153	7	CLR:00	10.00		57	13.9	55	13.0	54	12.2	90	0	000		29.27	2	-0.06	30.23	FM-15	0.00	30.25
01	2253	7	CLR:00	10.00		55	12.8	54	12.2	53	11.7	93	0	000		29.28			30.25	FM-15	0.00	30.26
01	2353	7	CLR:00	10.00		53	11.7	52	11.4	52	11.1	96	0	000		29.29			30.26	FM-15	0.00	30.27

U.S. Department of Commerce  
National Oceanic & Atmospheric Administration  
National Environmental Satellite, Data, and Information Service  
Current Location: Elev: 900 ft. Lat: 36.0230° N Lon: -84.2337° W  
Station: **OAK RIDGE ASOS, TN US 53868**

**Local Climatological Data**  
**Hourly Remarks**  
**October 2017**

Generated on 11/11/2017

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

Date	Time (LST)	Remarks
01	0053	MET10810/01/17 00:53:02 METAR KOQT 010553Z 00000KT 10SM CLR 14/09 A3024 RMK AO2 SLP233 T01390089 10183 20139 50002
01	0153	MET09410/01/17 01:53:02 METAR KOQT 010653Z 00000KT 10SM CLR 12/09 A3024 RMK AO2 SLP234 T01220089 RTX
01	0253	MET09010/01/17 02:53:02 METAR KOQT 010753Z 00000KT 10SM CLR 12/09 A3024 RMK AO2 SLP233 T01170094
01	0353	MET10010/01/17 03:53:02 METAR KOQT 010853Z 00000KT 10SM CLR 11/09 A3024 RMK AO2 SLP234 T01110089 57001 RTX
01	0453	MET09010/01/17 04:53:02 METAR KOQT 010953Z 00000KT 10SM CLR 11/09 A3025 RMK AO2 SLP239 T01060089
01	0553	MET09010/01/17 05:53:02 METAR KOQT 011053Z 00000KT 10SM CLR 10/09 A3026 RMK AO2 SLP244 T01000089
01	0653	MET10810/01/17 06:53:02 METAR KOQT 011153Z 00000KT 10SM CLR 10/09 A3028 RMK AO2 SLP252 T01000089 10139 20094 53014
01	0753	MET09010/01/17 07:53:02 METAR KOQT 011253Z 00000KT 10SM CLR 13/09 A3030 RMK AO2 SLP257 T01280094
01	0853	MET09010/01/17 08:53:02 METAR KOQT 011353Z VRB04KT 10SM CLR 16/08 A3031 RMK AO2 SLP259 T01560083
01	0953	MET09610/01/17 09:53:02 METAR KOQT 011453Z 07005KT 10SM CLR 18/09 A3031 RMK AO2 SLP258 T01780089 51008
01	1053	MET09010/01/17 10:53:02 METAR KOQT 011553Z 08004KT 10SM CLR 19/09 A3029 RMK AO2 SLP251 T01940094
01	1153	MET09010/01/17 11:53:02 METAR KOQT 011653Z 13004KT 10SM CLR 20/09 A3027 RMK AO2 SLP244 T02000094
01	1253	MET10810/01/17 12:53:02 METAR KOQT 011753Z VRB03KT 10SM CLR 23/10 A3025 RMK AO2 SLP235 T02280100 10228 20100 58020
01	1353	MET09410/01/17 13:53:02 METAR KOQT 011853Z 00000KT 10SM CLR 23/10 A3021 RMK AO2 SLP225 T02330100 RTX
01	1453	MET09910/01/17 14:53:02 METAR KOQT 011953Z 00000KT 10SM CLR 24/10 A3019 RMK AO2 SLP218 T02390100 RTX FIBI
01	1553	MET09610/01/17 15:53:02 METAR KOQT 012053Z 00000KT 10SM CLR 24/10 A3018 RMK AO2 SLP214 T02390100 56021
01	1653	MET09010/01/17 16:53:02 METAR KOQT 012153Z 00000KT 10SM CLR 24/09 A3017 RMK AO2 SLP212 T02440094
01	1753	MET09010/01/17 17:53:02 METAR KOQT 012253Z 00000KT 10SM CLR 22/10 A3018 RMK AO2 SLP215 T02170100
01	1853	MET10810/01/17 18:53:02 METAR KOQT 012353Z 00000KT 10SM CLR 17/12 A3018 RMK AO2 SLP220 T01720122 10250 20172 53001
01	1953	MET09010/01/17 19:53:01 METAR KOQT 020053Z 00000KT 10SM CLR 16/13 A3021 RMK AO2 SLP226 T01610128
01	2053	MET09010/01/17 20:53:02 METAR KOQT 020153Z 00000KT 10SM CLR 14/12 A3023 RMK AO2 SLP232 T01440122
01	2153	MET09610/01/17 21:53:02 METAR KOQT 020253Z 00000KT 10SM CLR 14/12 A3025 RMK AO2 SLP238 T01390122 52021
01	2253	MET09010/01/17 22:53:02 METAR KOQT 020353Z 00000KT 10SM CLR 13/12 A3026 RMK AO2 SLP243 T01280117
01	2353	MET10010/01/17 23:53:02 METAR KOQT 020453Z 00000KT 10SM CLR 12/11 A3027 RMK AO2 SLP246 T01170111 402500094

**Local Climatological Data**  
**Hourly Precipitation**  
**October 2017**

Generated on 11/11/2017

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			T																02	
03																								03	
04																								04	
05								T	T															05	
06																								06	
07																					T		T	07	
08	0.02s	0.02	0.02	0.03	0.03	0.05	0.10	0.03	0.01	0.11	0.07	0.04	0.12	0.44	0.08	0.03	0.06	0.14	0.32	0.23	0.05	0.09	T	08	
09								T	T															09	
10				T	T			T	T	0.03				0.05	0.31								T	10	
11	0.01	0.03	0.13	0.07											T									11	
12																								12	
13								T																13	
14																								14	
15																		0.30	0.05	T	0.02	0.01	T	0.04	15
16																								16	
17							T	T																17	
18					T	T				M														18	
19	T			T		T	T	T																19	
20	T	T	T	T	T	T	T	T	T															20	
21		T		T	T	T	T	T	T															21	
22				T	T	T	T	T																22	
23				T	T	0.01	0.04	0.04	0.10	0.71	0.19	0.19	T			0.07			T	T	T			23	
24						T																		24	
25																								25	
26							T	T																26	
27				T	T		T	T	T														T	27	
28			0.01	0.10s	0.14	0.06	0.07	0.05	0.09	0.10	0.13	0.14	0.15	0.09	0.02									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)	0.23	0.33	0.39	0.46	0.57	0.68	0.72	0.78	0.84	0.91	0.99	1.10
Ending Date Time (yyyy-mm-dd hh:mi)	2017-10-23 09:20	2017-10-23 09:24	2017-10-23 09:29	2017-10-23 09:34	2017-10-23 09:44	2017-10-23 09:45	2017-10-23 09:57	2017-10-23 10:20	2017-10-23 10:37	2017-10-23 11:00	2017-10-23 11:30	2017-10-23 11:57

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