

# Local Climatological Data Daily Summary July 2020

Current Location: Elev: 900 ft. Lat: 36.0230° N Lon: -84.2337° W

Generated on 08/12/2020

Station: **OAK RIDGE ASOS, TN US WBAN: 72427053868 (KOQT)**

Date	Temperature (F)							Degree Days (base 65F)		Sun (LST)		Weather Type	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	86	71	79	1.1				0	14	0524	1958	RA BR	0.07			28.97		0.8	10	360	7	250		
02	91	68	80	2.0				0	15	0525	1958	RA FG BR	0.00s			29.00		1.6	14	070	8	080		
03	92	67	80	1.9				0	15	0525	1957		0.00			29.02		1.4	13	030	7	140		
04	94	69	82	3.8				0	17	0526	1957		0.00			29.00		0.5	11	020	6	080		
05	93	73	83	4.7				0	18	0526	1957	BR HZ	0.00			29.00		0.8	16	070	9	080		
06	91	71	81	2.7				0	16	0527	1957	RA FG BR	0.49			29.05		1.5	18	110	9	160		
07	90	72	81	2.6				0	16	0527	1957		0.00			29.05		1.6	14	090	9	080		
08	90	71	81	2.6				0	16	0528	1956		0.00			29.00		1.2	15	080	8	070		
09	94	69	82	3.5				0	17	0528	1956		0.00			28.98		1.9	21	110	14	100		
10	94	72	83	4.5				0	18	0529	1956	RA	T			28.97		3.5	20	240	12	270		
11	90	68	79	0.4				0	14	0530	1955		0.00			28.98		2.0	16	290	9	340		
12	84	69	77	-1.6				0	12	0530	1955		T			28.94		1.1	12	190	8	150		
13	91	66	79	0.4				0	14	0531	1954		0.00			28.95		1.3	12	090	8	090		
14	93	66*	80	1.4				0	15	0531	1954		0.00			29.07		1.4	14	100	8	090		
15	95	67	81	2.4				0	16	0532	1953		0.00			29.10		1.4	14	230	7	270		
16	97	75	86	7.4				0	21	0533	1953		0.00			29.14		3.1	19	260	10	270		
17	97	75	86	7.4				0	21	0534	1952		0.00			29.19		1.9	17	270	10	280		
18	97	75	86	7.4				0	21	0534	1952		0.00			29.15		1.5	18	300	10	280		
19	97	74	86	7.4				0	21	0535	1951		0.00			29.11		2.1	22	260	13	280		
20	96	74	85	6.4				0	20	0536	1951	RA	0.11			29.10		1.0	25	310	13	320		
21	97*	72	85	6.4				0	20	0536	1950	RA	T			29.10		1.5	17	160	10	150		
22	94	74	84	5.4				0	19	0537	1949		0.00			29.14		2.7	15	260	9	280		
23	92	74	83	4.4				0	18	0538	1949	RA BR	0.27			29.18		0.8	31	260	16	280		
24	88	72	80	1.4				0	15	0539	1948	RA BR	0.03			29.20		1.3	17	310	9	270		
25	88s	72s	80s	1.4s				0s	15s	0539	1947	RA FG BR	0.00s			29.21		0.9	*		5	190		
26	91	69	80	1.4				0	15	0540	1946	RA BR	0.37			29.19		1.2	16	020	8	250		
27	93	70	82	3.4				0	17	0541	1945	FG BR	T			29.11		1.9	15	260	9	260		
28	87	73	80	1.4				0	15	0542	1945	RA BR	0.24			29.05		0.6	11	260	7	290		
29	92	74	83	4.4				0	18	0542	1944	RA	0.16			29.05		1.0	11	160	7	150		
30	85	74	80	1.4				0	15	0543	1943	RA FG BR	0.29			28.97		1.5	19	180	10	190		
31	92	73	83	4.5				0	18	0544	1942	RA BR	0.31			28.93		2.7	20	310	12	290		
<b>Monthly Averages   Totals</b>													2.47s			29.06	29.98	1.6						
<b>Departure from Normal (1981-2010)</b>													-2.80s											

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		
0	515	0	979	26s	0	0	0	11s	9s					
<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>		30.20		<b>Date</b>	24		<b>Time</b>		1051	
				<b>Minimum</b>		29.77			12				1753	
								06-06		<b>Date</b>				
<b>Station Augmentation</b>														
Name:OAK RIDGE ATDD, TN Lat: 35.998 Lon: -84.2192 Elevation: N/A 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 WBAN: 72427053868 (KOQT)

### Local Climatological Data Hourly Observations July 2020

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

Generated on 08/12/2020

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	0036	7	BKN:07 11	10.00		71	21.7	69	20.6	68	20.0	90	0	000		28.98			FM-16		29.95	
01	0053	7	OVC:08 11	10.00		71	21.7	69	20.6	68	20.0	90	0	000		28.98	8	+0.01	29.91	FM-15	0.00	29.95
01	0151	7	OVC:08 9	10.00		72	22.2	69	20.6	68	20.0	88	0	000		28.97			FM-16		29.94	
01	0153	7	OVC:08 9	10.00		72	22.2	69	20.6	68	20.0	87	0	000		28.97		29.89	FM-15	0.00	29.94	
01	0219	7	OVC:08 10	10.00		72	22.2	69	20.6	68	20.0	87	0	000		28.96			FM-16		29.93	
01	0253	7	OVC:08 10	10.00		72	22.2	70	21.1	69	20.6	91	0	000		28.97		29.90	FM-15	0.00	29.94	
01	0311	7	OVC:08 9	7.00		72	22.2	70	21.1	69	20.6	91	0	000		28.97			FM-16		29.94	
01	0343	7	OVC:08 10	10.00		72	22.2	70	21.1	69	20.6	91	0	000		28.97			FM-16		29.94	
01	0353	7	OVC:08 10	10.00		72	22.2	70	21.1	69	20.6	91	0	000		28.98	3	-0.01	29.91	FM-15	0.00	29.95
01	0401	7	OVC:08 9	10.00		72	22.2	70	21.1	69	20.6	91	0	000		28.98			FM-16		29.95	
01	0453	7	OVC:08 6	10.00		72	22.2	69	20.6	68	20.0	87	0	000		28.97		29.90	FM-15	0.00	29.94	
01	0553	7	OVC:08 5	8.00		71	21.7	69	20.6	68	20.0	90	0	000		28.97		29.90	FM-15	0.00	29.94	
01	0629	7	OVC:08 4	4.00	BR:1	71	21.7	69	20.6	68	20.0	90	0	000		28.97			FM-16		29.94	
01	0653	7	OVC:08 6	7.00		72	22.2	69	20.6	68	20.0	87	0	000		28.97	5	+0.01	29.90	FM-15	0.00	29.94
01	0753	7	BKN:07 7 OVC:08 11	10.00		72	22.2	70	21.1	69	20.6	91	0	000		28.99		29.91	FM-15	0.00	29.96	
01	0815	7	SCT:04 7 BKN:07 14	10.00		73	22.8	70	21.1	69	20.6	87	0	000		28.99			FM-16		29.96	
01	0833	7	BKN:07 8 BKN:07 15	10.00		73	22.8	70	21.1	69	20.6	87	0	000		29.00			FM-16		29.97	
01	0853	7	OVC:08 9	10.00		73	22.8	70	21.1	68	20.0	84	0	000		29.00		29.93	FM-15	0.00	29.97	
01	0914	7	OVC:08 11	10.00		73	22.8	70	21.1	69	20.6	87	3	150		29.00			FM-16		29.97	
01	0936	7	SCT:04 12 BKN:07 24 OVC:08 32	10.00		75	23.9	70	21.1	68	20.0	79	0	000		29.00			FM-16		29.97	
01	0950	7	SCT:04 13 SCT:04 24 BKN:07 30	10.00		75	23.9	72	22.2	70	21.1	83	0	000		29.00			FM-16		29.97	
01	0953	7	SCT:04 13 BKN:07 33 OVC:08 85	10.00		77	25.0	71	21.7	68	20.0	74	0	000		29.00	1	-0.02	29.93	FM-15	0.00	29.97
01	1053	7	BKN:07 20 BKN:07 55 OVC:08 110	10.00		80	26.7	72	22.2	68	20.0	67	0	000		29.00		29.93	FM-15	0.00	29.97	
01	1137	7	SCT:04 25 BKN:07 36 OVC:08 44	10.00		80	26.7	72	22.2	68	20.0	67	0	000		29.01			FM-16		29.98	
01	1153	7	SCT:04 25 SCT:04 34 BKN:07 44	10.00		81	27.2	72	22.2	68	20.0	65	0	000		29.00		29.93	FM-15	0.00	29.97	
01	1251	6	FEW:02 9 SCT:04 31 BKN:07 75	10.00	-RA:02  RA  RA	77	25.0	74	23.3	72	22.2	83	3	VRB		29.00			FM-16		29.97	
01	1253	7	FEW:02 9 SCT:04 31 BKN:07 75	10.00	-RA:02  RA  RA	77	25.0	74	23.3	72	22.2	85	0	000		29.00	6	0.00	29.93	FM-15	T	29.97
01	1353	7	SCT:04 15	10.00		78	25.6	73	22.8	71	21.7	79	0	000		28.97		29.90	FM-15	0.00	29.94	
01	1453	7	CLR:00	10.00		83	28.3	73	22.8	68	20.0	61	5	230		28.94		29.86	FM-15	0.00	29.91	
01	1553	7	FEW:02 36 SCT:04 43 BKN:07 50	10.00		85	29.4	74	23.3	69	20.6	59	3	VRB		28.93	6	+0.07	29.85	FM-15	0.00	29.90

01	1653	7	FEW:02 24 OVC:08 33	10.00		81	27.2	73	22.8	69	20.6	67	0	000		28.92			29.84	FM-15	0.00	29.89
01	1753	7	SCT:04 48 BKN:07 90 OVC:08 110	5.00	-RA:02  RA  RA	77	25.0	74	23.3	72	22.2	85	3	020		28.94			29.87	FM-15	0.02	29.91
01	1853	7	SCT:04 50 SCT:04 70 OVC:08 100	10.00	-RA:02  RA  RA	75	23.9	73	22.8	72	22.2	90	5	280		28.95	3	-0.02	29.88	FM-15	0.04	29.92
01	1953	7	SCT:04 50 OVC:08 60	10.00		74	23.3	71	21.7	70	21.1	88	0	000		28.96			29.89	FM-15	T	29.93
01	2053	7	BKN:07 80	10.00	-RA:02  RA  RA	73	22.8	70	21.1	69	20.6	87	0	000		28.96			29.89	FM-15	T	29.93
01	2153	7	OVC:08 100	10.00	-RA:02  RA  RA	72	22.2	70	21.1	69	20.6	91	3	070		28.97	1	-0.02	29.89	FM-15	0.01	29.94
01	2253	7	CLR:00	10.00		72	22.2	70	21.1	69	20.6	91	0	000		28.97			29.89	FM-15	0.00	29.94
01	2353	7	CLR:00	10.00		71	21.7	70	21.1	69	20.6	94	0	000		28.98			29.90	FM-15	0.00	29.95

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**Local Climatological Data**  
**Hourly Remarks**  
**July 2020**

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

Current Location: Elev: 900 ft. Lat: 36.0230° N Lon: -84.2337° W

Generated on 08/12/2020

Station: **OAK RIDGE ASOS, TN US WBAN: 72427053868 (KOQT)**

Date	Time (LST)	Remarks
01	0036	MET08607/01/20 00:36:02 SPECI KOQT 010536Z 00000KT 10SM BKN011 22/20 A2995 RMK AO2 T02170200
01	0053	MET11107/01/20 00:53:02 METAR KOQT 010553Z 00000KT 10SM OVC011 22/20 A2995 RMK AO2 SLP127 T02170200 10250 20217 58005
01	0151	MET08807/01/20 01:51:02 SPECI KOQT 010651Z 00000KT 10SM OVC009 22/20 A2994 RMK AO2 CIG 006V013
01	0153	MET10907/01/20 01:53:02 METAR KOQT 010653Z 00000KT 10SM OVC009 22/20 A2994 RMK AO2 CIG 006V012 SLP122 T02220200 RTX
01	0219	MET08607/01/20 02:19:02 SPECI KOQT 010719Z 00000KT 10SM OVC010 22/20 A2993 RMK AO2 T02220200
01	0253	MET09307/01/20 02:53:02 METAR KOQT 010753Z 00000KT 10SM OVC010 22/21 A2994 RMK AO2 SLP124 T02220206
01	0311	MET08507/01/20 03:11:02 SPECI KOQT 010811Z 00000KT 7SM OVC009 22/21 A2994 RMK AO2 T02220206
01	0343	MET09807/01/20 03:43:02 SPECI KOQT 010843Z 00000KT 10SM OVC010 22/21 A2994 RMK AO2 CIG 005V013 T02220206
01	0353	MET11107/01/20 03:53:02 METAR KOQT 010853Z 00000KT 10SM OVC010 22/21 A2995 RMK AO2 CIG 005V013 SLP128 T02220206 53003
01	0401	MET10207/01/20 04:01:02 SPECI KOQT 010901Z 00000KT 10SM OVC009 22/21 A2995 RMK AO2 CIG 005V012 T02220206 RTX
01	0453	MET09307/01/20 04:53:02 METAR KOQT 010953Z 00000KT 10SM OVC006 22/20 A2994 RMK AO2 SLP124 T02220200
01	0553	MET09607/01/20 05:53:02 METAR KOQT 011053Z 00000KT 8SM OVC005 22/20 A2994 RMK AO2 SLP124 T02170200 RTX
01	0629	MET08807/01/20 06:29:02 SPECI KOQT 011129Z 00000KT 4SM BR OVC004 22/20 A2994 RMK AO2 T02170200
01	0653	MET12807/01/20 06:53:02 METAR KOQT 011153Z 00000KT 7SM OVC006 22/20 A2994 RMK AO2 CIG 004V009 SLP125 70005 T02220200 10222 20217 55002
01	0753	MET11607/01/20 07:53:02 METAR KOQT 011253Z 00000KT 10SM BKN007 OVC011 22/21 A2996 RMK AO2 CIG 005V010 SLP130 T02220206 RTX
01	0815	MET09307/01/20 08:15:02 SPECI KOQT 011315Z 00000KT 10SM SCT007 BKN014 23/21 A2996 RMK AO2 T02280206
01	0833	MET10907/01/20 08:33:02 SPECI KOQT 011333Z 00000KT 10SM BKN008 BKN015 23/21 A2997 RMK AO2 CIG 005V010 T02280206 RTX
01	0853	MET10507/01/20 08:53:02 METAR KOQT 011353Z 00000KT 10SM OVC009 23/20 A2997 RMK AO2 CIG 008V011 SLP135 T02280200
01	0914	MET08607/01/20 09:14:02 SPECI KOQT 011414Z 15003KT 10SM OVC011 23/21 A2997 RMK AO2 T02280206
01	0936	MET10007/01/20 09:36:02 SPECI KOQT 011436Z 00000KT 10SM SCT012 BKN024 OVC032 24/20 A2997 RMK AO2 T02390200
01	0950	MET09007/01/20 09:50:02 SPECI KOQT 011450Z 00000KT 10SM SCT013 SCT024 BKN030 24/21 A2997 RMK AO2
01	0953	MET11307/01/20 09:53:02 METAR KOQT 011453Z 00000KT 10SM SCT013 BKN033 OVC085 25/20 A2997 RMK AO2 SLP136 T02500200 51006
01	1053	MET11107/01/20 10:53:02 METAR KOQT 011553Z 00000KT 10SM BKN020 BKN055 OVC110 27/20 A2997 RMK AO2 SLP134 T02670200 RTX
01	1137	MET10007/01/20 11:37:02 SPECI KOQT 011637Z 00000KT 10SM SCT025 BKN036 OVC044 27/20 A2998 RMK AO2 T02670200
01	1153	MET11107/01/20 11:53:02 METAR KOQT 011653Z 00000KT 10SM SCT025 SCT034 BKN044 27/20 A2997 RMK AO2 SLP134 T02720200 RTX
01	1251	MET11107/01/20 12:51:02 SPECI KOQT 011751Z VRB03KT 10SM -RA FEW009 SCT031 BKN075 25/22 A2997 RMK AO2 RAB11 P0000 FIBI
01	1253	MET14707/01/20 12:53:02 METAR KOQT 011753Z 00000KT 10SM -RA FEW009 SCT031 BKN075 25/22 A2997 RMK AO2 RAB11 SLP136 P0000 60000 T02500222 10278 20222 56001
01	1353	MET11107/01/20 13:53:02 METAR KOQT 011853Z 00000KT 10SM SCT015 26/22 A2994 RMK AO2 RAE1759 SLP125 P0000 T02560217 RTX
01	1453	MET09007/01/20 14:53:02 METAR KOQT 011953Z 23004KT 10SM CLR 28/20 A2991 RMK AO2 SLP112 T02830200
01	1553	MET12307/01/20 15:53:02 METAR KOQT 012053Z VRB03KT 10SM FEW036 SCT043 BKN050 29/21 A2990 RMK AO2 SLP107 60000 T02940206 56025 RTX
01	1653	MET10007/01/20 16:53:02 METAR KOQT 012153Z 00000KT 10SM FEW024 OVC033 27/21 A2989 RMK AO2 SLP104 T02720206
01	1753	MET12207/01/20 17:53:02 METAR KOQT 012253Z 02003KT 5SM -RA SCT048 BKN090 OVC110 25/22 A2991 RMK AO2 RAB07 SLP116 P0002 T02500222
01	1853	MET14107/01/20 18:53:02 METAR KOQT 012353Z 28004KT 10SM -RA SCT050 SCT070 OVC100 24/22 A2992 RMK AO2 SLP117 P0004 60006 T02390222 10300 20239 53006
01	1953	MET11207/01/20 19:53:01 METAR KOQT 020053Z 00000KT 10SM SCT050 OVC060 23/21 A2993 RMK AO2 RAE31 SLP123 P0000 T02330211
01	2053	MET10907/01/20 20:53:01 METAR KOQT 020153Z 00000KT 10SM -RA BKN080 23/21 A2993 RMK AO2 RAB32 SLP123 P0000 T02280206
01	2153	MET11507/01/20 21:53:01 METAR KOQT 020253Z 07003KT 10SM -RA OVC100 22/21 A2994 RMK AO2 SLP123 P0001 60001 T02220206 51007
01	2253	MET10407/01/20 22:53:02 METAR KOQT 020353Z 00000KT 10SM CLR 22/21 A2994 RMK AO2 RAE0256 SLP123 P0000 T02220206
01	2353	MET10007/01/20 23:53:02 METAR KOQT 020453Z 00000KT 10SM CLR 22/21 A2995 RMK AO2 SLP125 T02170206 403000217

## Local Climatological Data Hourly Precipitation July 2020

Generated on 08/12/2020

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													T					0.02	0.04	T	T	0.01			01
02	T																								02
03																									03
04																									04
05																									05
06																							0.48	0.01	06
07																									07
08																									08
09																									09
10													T												10
11																									11
12									T																12
13																									13
14																									14
15																									15
16																									16
17																									17
18																									18
19																									19
20																					0.03	0.08			20
21																							T	T	21
22																									22
23														0.24	0.03	T	T								23
24			T	T	T	0.01	T	0.01	T	T	0.01	T													24
25													0.08s	0.05	T										25
26															T		0.37	T	T						26
27													T												27
28							T	0.21	0.03	T					T	T									28
29																	0.09	T	0.07						29
30													0.19	0.01	T	0.07s	0.02	T	T	T	T			M	30
31				T	0.12	0.06	T								T	0.01	0.08	0.03		0.01	T				31

### Maximum Short Duration Precipitation

Time Period (Minutes)	5	10	15	20	30	45	60	80	100	120	150	180
Precipitation (inches)	0.21	0.31	0.40	0.45	0.48	0.48	0.49	0.49	0.49	0.49	0.49	0.49
Ending Date Time (yyyy-mm-dd hh:mi)	2020-07-06 22:35	2020-07-06 22:36	2020-07-06 22:40	2020-07-06 22:45	2020-07-06 22:50	2020-07-06 22:50	2020-07-06 23:11	2020-07-06 23:11	2020-07-06 23:11	2020-07-06 23:11	2020-07-06 23:11	2020-07-06 23:11

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