

Local Climatological Data
Daily Summary
July 2019

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

Generated on 08/08/2019

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	91	69	80	2.2				0	15	0524	1958	RA	0.12			29.08		0.8	16	360	9	010					
02	91	70	81	3.1				0	16	0524	1958	RA BR	0.26			29.06		1.2	31	090	20	090					
03	89	69	79	1.0				0	14	0525	1958	RA FG BR	T			29.04		2.0	12	290	8	270					
04	91	69	80	1.9				0	15	0525	1957	RA	T			29.09		1.1	15	280	9	280					
05	93	70	82	3.8				0	17	0526	1957	RA BR	T			29.13		1.7	15	280	10	280					
06	92	73	83	4.7				0	18	0526	1957		0.00			29.08		1.9	14	200	8	250					
07	91	73	82	3.7				0	17	0527	1957	BR	0.01			28.99		1.1	17	320	9	350					
08	92	72	82	3.6				0	17	0527	1957	RA BR	T			28.98		1.8	13	330	8	310					
09	96*	72	84	5.6				0	19	0528	1956		T			29.03		1.5	11	070	7	080					
10	92	75	84	5.5				0	19	0528	1956		0.00			29.07		1.7	15	270	12	270					
11	85	74	80	1.5				0	15	0529	1956	RA FG BR	1.91			28.99		1.7	28s	250s	13	260					
12	91	74	83	4.4				0	18	0530	1955	RA BR	0.08			28.98		1.2	18	160	12	160					
13	91	73	82	3.4				0	17	0530	1955	RA FG BR	0.69			29.11		2.7	23	260	13	270					
14	85	72	79	0.4				0	14	0531	1954	RA BR	0.57			29.22		1.3	12	220	10	150					
15	88	72	80	1.4				0	15	0531	1954	FG BR	0.00			29.18		1.3	12	160	7	170					
16	92	74	83	4.4				0	18	0532	1953	BR	0.00			29.15		2.7	20	180	12	200					
17	84	72	78	-0.6				0	13	0533	1953	RA BR	0.43			29.11		2.9	18	210	10	210					
18	91	75	83	4.4				0	18	0534	1952	RA BR	0.07			29.08		4.0	22	230	14	240					
19	93	72	83	4.4				0	18	0534	1952		0.00			29.10		2.0	11	260	7	280					
20	93	75	84	5.4				0	19	0535	1951	RA BR	0.49			29.09		1.2	25	160	20	140					
21	90	75	83	4.4				0	18	0536	1951	RA	T			29.07		2.9	17	190	10	270					
22	88	72	80	1.4				0	15	0536	1950	RA FG BR	0.57			29.00		2.3	16	240	9	270					
23	82	63	73	-5.6				0	8	0537	1949	RA BR	0.55			29.00		2.3	18	360	10	010					
24	84	57*	71	-7.6				0	6	0538	1949		T			29.12		0.9	13	360	9	080					
25	85	60	73	-5.6				0	8	0539	1948		0.00			29.19		1.6	11	090	8	090					
26	88	62	75	-3.6				0	10	0539	1947		0.00			29.28		0.7	12	190	7	270					
27	90	64	77	-1.6				0	12	0540	1946		0.00			29.30		1.8	11	190	7	220					
28	90	65	78	-0.6				0	13	0541	1945		0.00			29.24		0.9	11	190	8	330					
29	91	68	80	1.4				0	15	0542	1945		0.00			29.13		1.4	13	270	10	270					
30	88	72	80	1.4				0	15	0542	1944		0.00			29.09		1.5	13	230	8	210					
31	88	68	78	-0.6				0	13	0543	1943	RA	0.15			29.11		1.0	10	260	7	150					
Monthly Averages Totals																											
Departure from Normal (1981-2010)																											
Degree Days											Number of days with...																
Monthly					Season-to-date					Temperature				Precipitation		Snow		Weather									
Total		Departure			Total		Departure			Max		Min															
Heating										>=90°		<=32°		<=32°		<=0°		>=0.01"		>=0.1"		>=1"		T-Storms		Heavy Fog	
Cooling																											
Date of 5-sec to 3-sec wind equipment change							Sea Level Pressure							Greatest...													
N/A							Maximum			Date				Time			24-Hr...				Snow Depth						
							Minimum										Precip		Snowfall								
														Date													
Station Augmentation																											
Name: N/A Lat: N/A Lon: N/A Elevation: N/A Distance: N/A Elements: N/A Equipment: N/A																											

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 2019

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

Generated on 08/08/2019

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		75	23.9	70	21.1	67	19.4	76	0	000		29.10	0	0.00	30.01	FM-15	0.00	30.07
01	0153	7	CLR:00	10.00		74	23.3	69	20.6	66	18.9	76	0	000		29.07			29.98	FM-15	0.00	30.04
01	0253	7	CLR:00	10.00		72	22.2	68	20.0	66	18.9	82	0	000		29.06			29.97	FM-15	0.00	30.03
01	0353	7	CLR:00	10.00		71	21.7	68	20.0	66	18.9	84	0	000		29.06	6	+0.04	29.97	FM-15	0.00	30.03
01	0453	7	CLR:00	9.00		70	21.1	67	19.4	66	18.9	87	0	000		29.07			29.98	FM-15	0.00	30.04
01	0553	7	CLR:00	8.00		70	21.1	67	19.4	65	18.3	84	0	000		29.09			30.00	FM-15	0.00	30.06
01	0653	7	CLR:00	9.00		72	22.2	68	20.0	66	18.9	82	0	000		29.12	3	-0.06	30.03	FM-15	0.00	30.09
01	0753	7	CLR:00	10.00		75	23.9	70	21.1	67	19.4	76	0	000		29.12			30.04	FM-15	0.00	30.09
01	0853	7	FEW:02 85	10.00		80	26.7	72	22.2	68	20.0	67	5	090		29.13			30.04	FM-15	0.00	30.10
01	0953	7	CLR:00	10.00		83	28.3	72	22.2	67	19.4	59	3	VRB		29.13	0	-0.01	30.04	FM-15	0.00	30.10
01	1053	7	CLR:00	10.00		85	29.4	73	22.8	68	20.0	57	5	VRB		29.12			30.03	FM-15	0.00	30.09
01	1153	7	FEW:02 37	10.00		87	30.6	75	23.9	69	20.6	55	0	000		29.10			30.03	FM-15	0.00	30.08
01	1253	7	BKN:07 44 BKN:07 60	10.00		87	30.6	75	23.9	69	20.6	55	0	000		29.10	6	+0.01	30.03	FM-15	0.00	30.08
01	1309	7	FEW:02 20 BKN:07 40 OVC:08 49	1.50	+RA:02 RA RA	77	25.0	71	21.7	68	20.0	74	5	VRB		29.13				FM-16	T	30.10
01	1319	7	FEW:02 25 BKN:07 42 OVC:08 100	4.00	-RA:02 RA RA	76	24.4	71	21.7	68	20.0	77	0	000		29.12				FM-16	0.11	30.09
01	1353	7	FEW:02 85 FEW:02 110	10.00		81	27.2	75	23.9	72	22.2	74	0	000		29.10			30.02	FM-15	0.12	30.07
01	1453	7	CLR:00	10.00		87	30.6	75	23.9	70	21.1	57	0	000		29.08			29.99	FM-15	0.00	30.05
01	1553	7	CLR:00	10.00		90	32.2	75	23.9	69	20.6	50	3	VRB		29.06	8	+0.05	29.98	FM-15	0.00	30.03
01	1653	7	CLR:00	10.00		90	32.2	76	24.4	70	21.1	52	0	000		29.05			29.96	FM-15	0.00	30.02
01	1753	7	CLR:00	10.00		88	31.1	75	23.9	69	20.6	54	3	VRB		29.04			29.96	FM-15	0.00	30.01
01	1853	7	CLR:00	10.00		87	30.6	75	23.9	70	21.1	57	0	000		29.05	5	+0.01	29.96	FM-15	0.00	30.02
01	1953	7	CLR:00	10.00		84	28.9	74	23.3	70	21.1	63	0	000		29.06			29.97	FM-15	0.00	30.03
01	2053	7	CLR:00	10.00		80	26.7	74	23.3	72	22.2	76	0	000		29.07			29.98	FM-15	0.00	30.04
01	2153	7	CLR:00	10.00		78	25.6	74	23.3	72	22.2	82	0	000		29.08	1	-0.03	29.99	FM-15	0.00	30.05
01	2253	7	CLR:00	10.00		76	24.4	73	22.8	71	21.7	85	0	000		29.08			29.99	FM-15	0.00	30.05
01	2353	7	CLR:00	8.00		75	23.9	72	22.2	71	21.7	88	0	000		29.08			29.99	FM-15	0.00	30.05

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Local Climatological Data
Hourly Remarks
July 2019

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 08/08/2019

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

Date	Time (LST)	Remarks
01	0053	MET10807/01/19 00:53:02 METAR KOQT 010553Z 00000KT 10SM CLR 24/19 A3007 RMK AO2 SLP162 T02390194 10322 20239 50001
01	0153	MET09007/01/19 01:53:02 METAR KOQT 010653Z 00000KT 10SM CLR 23/19 A3004 RMK AO2 SLP152 T02330189
01	0253	MET09007/01/19 02:53:02 METAR KOQT 010753Z 00000KT 10SM CLR 22/19 A3003 RMK AO2 SLP150 T02220189
01	0353	MET09607/01/19 03:53:02 METAR KOQT 010853Z 00000KT 10SM CLR 22/19 A3003 RMK AO2 SLP148 T02170189 56013
01	0453	MET08907/01/19 04:53:02 METAR KOQT 010953Z 00000KT 9SM CLR 21/19 A3004 RMK AO2 SLP154 T02110189
01	0553	MET08907/01/19 05:53:02 METAR KOQT 011053Z 00000KT 8SM CLR 21/18 A3006 RMK AO2 SLP160 T02110183
01	0653	MET10707/01/19 06:53:02 METAR KOQT 011153Z 00000KT 9SM CLR 22/19 A3009 RMK AO2 SLP169 T02220189 10239 20206 53019
01	0753	MET09007/01/19 07:53:02 METAR KOQT 011253Z 00000KT 10SM CLR 24/19 A3009 RMK AO2 SLP172 T02390194
01	0853	MET09307/01/19 08:53:02 METAR KOQT 011353Z 09004KT 10SM FEW085 27/20 A3010 RMK AO2 SLP174 T02670200
01	0953	MET09607/01/19 09:53:02 METAR KOQT 011453Z VRB03KT 10SM CLR 28/19 A3010 RMK AO2 SLP173 T02830194 50005
01	1053	MET09007/01/19 10:53:02 METAR KOQT 011553Z VRB04KT 10SM CLR 29/20 A3009 RMK AO2 SLP171 T02940200
01	1153	MET09307/01/19 11:53:02 METAR KOQT 011653Z 00000KT 10SM FEW037 31/21 A3008 RMK AO2 SLP168 T03060206
01	1253	MET11807/01/19 12:53:02 METAR KOQT 011753Z 00000KT 10SM BKN044 BKN060 31/21 A3008 RMK AO2 SLP169 T03060206 10322 20222 56005
01	1309	MET11907/01/19 13:09:02 SPECI KOQT 011809Z VRB04KT 1 1/2SM +RA FEW020 BKN040 OVC049 25/20 A3010 RMK AO2 RAB05 P0000 T02500200
01	1319	MET11507/01/19 13:19:02 SPECI KOQT 011819Z 00000KT 4SM -RA FEW025 BKN042 OVC100 24/20 A3009 RMK AO2 RAB05 P0011 T02440200
01	1353	MET11507/01/19 13:53:02 METAR KOQT 011853Z 00000KT 10SM FEW085 FEW110 27/22 A3007 RMK AO2 RAB05E46 SLP166 P0012 T02720222
01	1453	MET09007/01/19 14:53:02 METAR KOQT 011953Z 00000KT 10SM CLR 31/21 A3005 RMK AO2 SLP157 T03060211
01	1553	MET10207/01/19 15:53:02 METAR KOQT 012053Z VRB03KT 10SM CLR 32/21 A3003 RMK AO2 SLP151 60012 T03220206 58018
01	1653	MET09007/01/19 16:53:02 METAR KOQT 012153Z 00000KT 10SM CLR 32/21 A3002 RMK AO2 SLP147 T03220211
01	1753	MET09007/01/19 17:53:02 METAR KOQT 012253Z VRB03KT 10SM CLR 31/21 A3001 RMK AO2 SLP145 T03110206
01	1853	MET11407/01/19 18:53:02 METAR KOQT 012353Z 00000KT 10SM CLR 31/21 A3002 RMK AO2 SLP146 60012 T03060211 10328 20239 55004
01	1953	MET09007/01/19 19:53:01 METAR KOQT 020053Z 00000KT 10SM CLR 29/21 A3003 RMK AO2 SLP150 T02890211
01	2053	MET09007/01/19 20:53:01 METAR KOQT 020153Z 00000KT 10SM CLR 27/22 A3004 RMK AO2 SLP153 T02670222
01	2153	MET09607/01/19 21:53:01 METAR KOQT 020253Z 00000KT 10SM CLR 26/22 A3005 RMK AO2 SLP156 T02560222 51010
01	2253	MET09007/01/19 22:53:02 METAR KOQT 020353Z 00000KT 10SM CLR 24/22 A3005 RMK AO2 SLP156 T02440217
01	2353	MET09907/01/19 23:53:02 METAR KOQT 020453Z 00000KT 8SM CLR 24/22 A3005 RMK AO2 SLP157 T02390217 403280206

Local Climatological Data Hourly Precipitation July 2019

Generated on 08/08/2019

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														0.12											01	
02															0.02	0.17	0.04	0.03	T						02	
03													T	T							T	T			03	
04															T	T									04	
05																			T	T	T				05	
06																									06	
07															T	0.01									07	
08														T	T										08	
09																								T	09	
10																									10	
11										T	T	0.82	1.07	T	T	T	T	T	0.02						11	
12	0.06	0.02																							12	
13																					0.68	T	0.01	T	13	
14													0.37s	0.20	T	T	T								14	
15																									15	
16																					M	M	M	M	M	16
17				0.02	0.04	T	0.10	0.07	0.10	0.06	0.04	T						T	T	M	M	M	M	M	17	
18			0.05													0.02									18	
19																									19	
20																0.49									20	
21									T																21	
22															0.15	0.19	T	0.01	0.05	0.08	0.01	0.05	0.01	0.02	22	
23	0.01	T	0.01	0.10	0.05	0.05	0.04	0.27	0.01	0.01	T														23	
24							T																		24	
25																	M								25	
26																									26	
27																							M	M	M	27
28																									28	
29																									29	
30																									30	
31															0.15					T	T				31	

Maximum Short Duration Precipitation

Time Period (Minutes)	5	10	15	20	30	45	60	80	100	120	150	180
Precipitation (inches)												
Ending Date Time (yyyy-mm-dd hh:mi)												

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