

Local Climatological Data
Daily Summary
February 2019

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

Generated on 03/04/2019

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

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	45	28	37	-1.8				28	0	0738	1804	RA	T			29.33		1.4	8	190	6	200									
02	63	38	51	12.0				14	0	0737	1805		0.00			29.28		0.5	9	180	6	180									
03	65	35	50	10.9				15	0	0736	1806		0.00			29.14		1.0	13	280	9	170									
04	59	37	48	8.7				17	0	0735	1807	RA FG BR	0.01			29.08		0.6	11	250	7	260									
05	71	53	62	22.5				3	0	0735	1808		0.00			29.10		1.3	13	230	9	210									
06	68	55	62	22.3				3	0	0734	1809	RA BR	1.07			29.05		2.6	28	300	13	210									
07	76*	60	68	28.1				0	3	0733	1810	RA BR	0.32			29.02		8.1	35	190	23	200									
08	60	31	46	5.9				19	0	0732	1811	RA BR	0.27			29.36		5.2	26	260	15	260									
09	47	27*	37	-3.3				28	0	0731	1812		0.00			29.66		4.7	17	080	12	070									
10	41	34	38	-2.5				27	0	0730	1813	RA BR	0.34			29.47		1.5	10	210	7	280									
11	48	39	44	3.3				21	0	0729	1814	RA BR	0.41			29.17		0.4	6	210	5	170									
12	57	41	49	8.0				16	0	0728	1815	RA FG BR	1.79			28.90		5.0	33	280	17	270									
13	52	33	43	1.8				22	0	0727	1816		0.00			29.17		4.8	20	280	13	260									
14	61	29	45	3.5				20	0	0726	1817		0.00			29.03		3.8	27	200	16	210									
15	62	41	52	10.3				13	0	0725	1818	RA BR	0.18			28.89		4.5	25	220	14	070									
16	50	40	45	3.0				20	0	0723	1819	RA BR	0.36			28.87		4.2	16	040	10	070									
17	51	41	46	3.7				19	0	0722	1820	RA BR	1.80			28.88		1.6	13	270	8	220									
18	51	34	43	0.5				22	0	0721	1821	RA BR	0.06			29.19		5.1	17	300	12	020									
19	41	32	37	-5.8				28	0	0720	1822	RA BR	1.27			29.47		4.2	17	070	12	060									
20	50	40	45	1.9				20	0	0719	1823	RA BR	0.82			29.08		0.9	11	260	7	080									
21	53	47	50	6.6				15	0	0718	1824	RA BR	0.21			29.15		2.5	12	090	8	070									
22	52	46	49	5.3				16	0	0716	1825	RA BR	0.53			29.26		4.2	14	040	9	050									
23	53	50	52	8.0				13	0	0715	1826	RA BR	4.98			29.11		2.2	13	080	9	070									
24	59	42	51	6.7				14	0	0714	1827	RA BR	0.86			28.97		8.1	31	270	21	260									
25	55	30	43	-1.6				22	0	0713	1828		0.00			29.41		1.2	12	190	7	190									
26	64	31	48	3.1				17	0	0711	1829		0.00			29.36		0.9	13	210	9	210									
27	72	42	57	11.8				8	0	0710	1830		0.00			29.16		2.1	19	200	13	270									
28	59	49	54	8.5				11	0	0709	1831	RA BR	0.34			29.04		1.1	13	250	8	250									
Monthly Averages Totals													15.62s			29.16	30.16														
Departure from Normal (1981-2010)													11.05s																		
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										0		0		7		0		18		16											
Date of 5-sec to 3-sec wind equipment change								Sea Level Pressure				Greatest...																			
2007-03-22								Maximum		30.80		Date		09		Time		1053		24-Hr... Precip		5.45s		Snowfall		Snow Depth					
								Minimum		29.74		Date		24		Time		0246													
																				Date											
Station Augmentation																															
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

Local Climatological Data Hourly Observations February 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 03/04/2019

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

Date	Time (LST)	Station Type	Sky Conditions	Visibility	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	OVC:08 80	10.00		29	-1.7	27	-2.8	22	-5.6	75	0	000		29.32	8	+0.03	30.35	FM-15	0.00	30.30
01	0153	7	OVC:08 80	10.00		30	-1.1	28	-2.2	23	-5.0	75	0	000		29.33			30.35	FM-15	0.00	30.31
01	0253	7	OVC:08 90	10.00		31	-0.6	28	-2.2	23	-5.0	72	0	000		29.32			30.34	FM-15	0.00	30.30
01	0353	7	OVC:08 100	10.00		32	0.0	29	-1.7	23	-5.0	69	0	000		29.31	8	+0.01	30.33	FM-15	0.00	30.29
01	0453	7	OVC:08 75	10.00		31	-0.6	28	-2.2	24	-4.4	76	0	000		29.30			30.32	FM-15	0.00	30.28
01	0553	7	OVC:08 70	10.00		32	0.0	29	-1.7	23	-5.0	69	5	270		29.30			30.32	FM-15	0.00	30.28
01	0653	7	OVC:08 65	10.00		33	0.6	30	-1.1	24	-4.4	70	3	200		29.31	3	-0.01	30.34	FM-15	0.00	30.29
01	0753	7	OVC:08 60	10.00		36	2.2	32	0.0	24	-4.4	62	0	000		29.33			30.36	FM-15	0.00	30.31
01	0853	7	OVC:08 65	10.00		38	3.3	33	0.6	25	-3.9	60	5	VRB		29.36			30.38	FM-15	0.00	30.34
01	0953	7	BKN:07 60 OVC:08 75	10.00		41	5.0	35	1.7	25	-3.9	53	3	260		29.38	1	-0.06	30.40	FM-15	T	30.36
01	1053	7	BKN:07 45 OVC:08 55	10.00		42	5.6	36	2.2	26	-3.3	53	3	210		29.39			30.41	FM-15	T	30.37
01	1153	7	BKN:07 44 OVC:08 50	10.00	-RA:02 RA RA	42	5.6	36	2.2	28	-2.2	58	0	000		29.38			30.40	FM-15	T	30.36
01	1253	7	OVC:08 50	10.00		42	5.6	37	2.8	29	-1.7	60	3	260		29.35	8	+0.02	30.37	FM-15	T	30.33
01	1353	7	OVC:08 60	10.00		43	6.1	37	2.8	29	-1.7	58	3	VRB		29.33			30.35	FM-15	T	30.31
01	1453	7	OVC:08 50	10.00	-RA:02 RA RA	43	6.1	38	3.3	30	-1.1	60	0	000		29.32			30.34	FM-15	T	30.30
01	1553	7	OVC:08 50	10.00		44	6.7	39	3.9	31	-0.6	60	0	000		29.32	6	+0.04	30.33	FM-15	T	30.30
01	1653	7	BKN:07 45 OVC:08 70	10.00		45	7.2	40	4.4	33	0.6	63	5	210		29.32			30.33	FM-15	T	30.30
01	1753	7	OVC:08 43	10.00		44	6.7	39	3.9	32	0.0	63	0	000		29.32			30.34	FM-15	0.00	30.30
01	1853	7	OVC:08 41	10.00		43	6.1	39	3.9	34	1.1	71	0	000		29.33	3	-0.01	30.35	FM-15	0.00	30.31
01	1953	7	OVC:08 42	10.00		43	6.1	39	3.9	34	1.1	71	0	000		29.34			30.35	FM-15	0.00	30.32
01	2053	7	OVC:08 42	10.00		43	6.1	39	3.9	34	1.1	71	0	000		29.34			30.35	FM-15	0.00	30.32
01	2153	7	OVC:08 43	10.00		42	5.6	39	3.9	34	1.1	73	3	050		29.35	3	-0.01	30.35	FM-15	0.00	30.33
01	2253	7	BKN:07 46 OVC:08 65	10.00		42	5.6	39	3.9	34	1.1	73	0	000		29.35			30.36	FM-15	0.00	30.33
01	2353	7	OVC:08 70	10.00		41	5.0	38	3.3	33	0.6	73	0	000		29.35			30.35	FM-15	0.00	30.33

U.S. Department of Commerce
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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 Remarks
February 2019

Generated on 03/04/2019

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

Date	Time (LST)	Remarks
01	0053	MET11302/01/19 00:53:02 METAR KOQT 010553Z 00000KT 10SM OVC080 M02/M06 A3030 RMK AO2 SLP277 T10171056 10011 21028 58011
01	0153	MET09502/01/19 01:53:02 METAR KOQT 010653Z 00000KT 10SM OVC080 M01/M05 A3031 RMK AO2 SLP279 T10111050
01	0253	MET09502/01/19 02:53:02 METAR KOQT 010753Z 00000KT 10SM OVC090 M01/M05 A3030 RMK AO2 SLP274 T10061050
01	0353	MET10002/01/19 03:53:02 METAR KOQT 010853Z 00000KT 10SM OVC100 00/M05 A3029 RMK AO2 SLP270 T00001050 58004
01	0453	MET09502/01/19 04:53:02 METAR KOQT 010953Z 00000KT 10SM OVC075 M01/M04 A3028 RMK AO2 SLP269 T10061044
01	0553	MET09402/01/19 05:53:02 METAR KOQT 011053Z 27004KT 10SM OVC070 00/M05 A3028 RMK AO2 SLP268 T00001050
01	0653	MET11202/01/19 06:53:02 METAR KOQT 011153Z 20003KT 10SM OVC065 01/M04 A3029 RMK AO2 SLP273 T00061044 10006 21017 53002
01	0753	MET09402/01/19 07:53:02 METAR KOQT 011253Z 00000KT 10SM OVC060 02/M04 A3031 RMK AO2 SLP280 T00221044
01	0853	MET09402/01/19 08:53:02 METAR KOQT 011353Z VRB04KT 10SM OVC065 03/M04 A3034 RMK AO2 SLP289 T00331039
01	0953	MET10702/01/19 09:53:02 METAR KOQT 011453Z 26003KT 10SM BKN060 OVC075 05/M04 A3036 RMK AO2 SLP294 T00501039 51021
01	1053	MET11802/01/19 10:53:02 METAR KOQT 011553Z 21003KT 10SM BKN045 OVC055 06/M03 A3037 RMK AO2 RAB1454E04 SLP297 P0000 T00561033
01	1153	MET11702/01/19 11:53:02 METAR KOQT 011653Z 00000KT 10SM -RA BKN044 OVC050 06/M02 A3036 RMK AO2 RAB34 SLP294 P0000 T00561022
01	1253	MET13802/01/19 12:53:02 METAR KOQT 011753Z 26003KT 10SM OVC050 06/M02 A3033 RMK AO2 RAE1656B18E34 SLP286 P0000 60000 T00561017 10067 20006 58007
01	1353	MET10902/01/19 13:53:02 METAR KOQT 011853Z VRB03KT 10SM OVC060 06/M02 A3031 RMK AO2 RAB04E34 SLP278 P0000 T00611017
01	1453	MET11002/01/19 14:53:02 METAR KOQT 011953Z 00000KT 10SM -RA OVC050 06/M01 A3030 RMK AO2 RAB02 SLP275 P0000 T00611011
01	1553	MET12402/01/19 15:53:02 METAR KOQT 012053Z 00000KT 10SM OVC050 07/M01 A3030 RMK AO2 RAE03B21E46 SLP272 P0000 60000 T00671006 56012
01	1653	MET11502/01/19 16:53:02 METAR KOQT 012153Z 21004KT 10SM BKN045 OVC070 07/01 A3030 RMK AO2 RAB23E38 SLP271 P0000 T00720006
01	1753	MET09302/01/19 17:53:02 METAR KOQT 012253Z 00000KT 10SM OVC043 07/00 A3030 RMK AO2 SLP274 T00670000
01	1853	MET11702/01/19 18:53:02 METAR KOQT 012353Z 00000KT 10SM OVC041 06/01 A3031 RMK AO2 SLP277 60000 T00610011 10072 20056 53005
01	1953	MET09302/01/19 19:53:01 METAR KOQT 020053Z 00000KT 10SM OVC042 06/01 A3032 RMK AO2 SLP276 T00610011
01	2053	MET09302/01/19 20:53:01 METAR KOQT 020153Z 00000KT 10SM OVC042 06/01 A3032 RMK AO2 SLP276 T00610011
01	2153	MET09902/01/19 21:53:01 METAR KOQT 020253Z 05003KT 10SM OVC043 06/01 A3033 RMK AO2 SLP278 T00560011 53004
01	2253	MET10002/01/19 22:53:01 METAR KOQT 020353Z 00000KT 10SM BKN046 OVC065 06/01 A3033 RMK AO2 SLP280 T00560011
01	2353	MET10302/01/19 23:53:02 METAR KOQT 020453Z 00000KT 10SM OVC070 05/01 A3033 RMK AO2 SLP279 T00500006 400721022

Local Climatological Data
Hourly Precipitation
February 2019

Generated on 03/04/2019

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										T	T	T	T	T	T	T								01	
02																								02	
03																								03	
04						T	T	T	T	T					0.01	T						T		04	
05																								05	
06			T	0.01s	0.13	0.02	0.06	T	0.01	T				T	0.01	T	0.01	0.12	0.15	0.47	0.08			06	
07			0.03	0.08	T																	0.08	0.13	07	
08	0.18	0.09		T	T	T																		08	
09																								09	
10								T		T	0.02	0.06	0.04	0.01	0.06	0.04	0.05	0.02	0.03	T	T	0.01s	T	10	
11			0.05	0.01	0.03	0.01												T	0.05s	0.06	0.04	0.07	0.02	0.07	11
12	0.09	0.02				T	T	T	T	0.45s	0.38	0.18	0.13	0.15	0.19	0.12	0.08	T						12	
13																								13	
14																								14	
15																T	T	T	0.02s	0.04	0.04	0.03	0.04	0.01	15
16	0.03	0.10	0.14	0.07	0.01	0.01																		16	
17					T	0.07	0.16	0.18	0.23	0.09	0.01	0.02	T	0.04	0.01	0.01	0.03	0.09	0.14	0.31	0.07	0.08	0.11	0.15	17
18	0.05	0.01																						18	
19																	0.02	0.13	0.08	0.08	0.07	0.27	0.32	0.30	19
20	0.13	0.02	0.01	T						T	T		T	0.08	0.27	0.06	T	0.01	0.18	0.01	T	0.02	0.04	0.01	20
21	0.02	0.02	0.01														0.01	T	T	0.02	0.06	0.02	0.04	0.01	21
22	T	0.10	0.02	0.11	0.03	0.02	0.05	0.03	0.01	0.01	T	T	0.01	T	0.03	0.03	0.02	0.05	T			0.01		22	
23		0.02	0.18	0.44	0.74	0.42	0.36	0.27	0.38	0.28	0.28	0.27	0.25	0.19	0.02	0.07	T			0.06	0.09	0.09	0.50	0.07	23
24	0.02	0.38	0.27	0.19																					24
25																									25
26																									26
27																									27
28													T	T	0.05	0.07	0.15	T	T	T	0.01		0.06	M	28
Maximum Short Duration Precipitation																									
Time Period (Minutes)	5	10	15	20	30	45	60	80	100	120	150	180													
Precipitation (inches)	0.19	0.28	0.31	0.32	0.47	0.64	0.78	1.01	1.20	1.31	1.49	1.68													
Ending Date Time (yyyy-mm-dd hh:mi)	2019-02-23 22:10	2019-02-23 22:10	2019-02-23 22:12	2019-02-23 22:20	2019-02-23 04:56	2019-02-23 05:11	2019-02-23 04:55	2019-02-23 05:01	2019-02-23 05:20	2019-02-23 05:37	2019-02-23 06:09	2019-02-23 06:40													

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