

**Local Climatological Data**  
**Daily Summary**  
**September 2019**

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

Generated on 09/30/2019

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		Weather Type			TLC	Snow Fall		Snow Depth	Avg Stn	Avg SL	Avg Speed	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	90	65	78	2.4				0	13	0608	1905	FG BR	0.00			29.18		0.6	10	140	8	150														
02	91	67	79	3.6				0	14	0609	1903		0.00			29.12		1.0	10	160	7	200														
03	92	69	81	5.8				0	16	0610	1902		0.00			29.08		1.1	11	080	7	090														
04	93	68	81	6.1				0	16	0611	1901	FG BR	0.00	0.0	0	29.08		0.5	10	080	7	150														
05	90	68	79	4.4				0	14	0612	1859		0.00			29.02		2.0	17	050	12	070														
06	89	61	75	0.7				0	10	0612	1858		0.00			29.00		1.5	12	180	8	130														
07	90	67	79	4.9				0	14	0613	1856		0.00		0	29.01		0.8	9	010	7	330														
08	90	63	77	3.2				0	12	0614	1855		0.00		0	29.08		1.2	11	150	8	170														
09	93	65	79	5.5				0	14	0615	1853		0.00			29.18		1.1	10	090	7	080														
10	96	67	82	8.9				0	17	0615	1852		0.00			29.25		1.3	15	220	8	270														
11	94	70	82	9.2				0	17	0616	1850		0.00			29.27		1.3	13	200	7	210														
12	96	70	83	10.5				0	18	0617	1849	FG BR	0.00			29.20		1.1	11	080	7	140														
13	97*	70	84	11.9				0	19	0618	1847		0.00	0.0	0	29.18		1.2	12	270	9	270														
14	91	73	82	10.2				0	17	0618	1846		T	0.0	0	29.24		2.0	14	160	8	150														
15	95	65	80	8.6				0	15	0619	1845		0.00			29.19		0.9	14	090	12	090														
16	96	62	79	7.9				0	14	0620	1843		0.00	0.0	0	29.13		0.9	11	200	7	190														
17	94	70	82	11.3				0	17	0621	1842		0.00			29.05		1.2	13	010	9	080														
18	93	68	81	10.7				0	16	0622	1840	RA	T			29.06		1.5	14	200	8	200														
19	86	68	77	7.0				0	12	0622	1839		0.00			29.18		3.4	14	170	9	260														
20	86	66	76	6.4				0	11	0623	1837		0.00			29.27		1.7	12	280	8	230														
21	88	64	76	6.8				0	11	0624	1836		0.00			29.29		1.2	12	260	8	280														
22	89	61	75	6.2				0	10	0625	1834		0.00			29.21		1.3	15	260	10	270														
23	83	60*	72	3.6				0	7	0625	1833		T			29.11		1.3	12	270	9	260														
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																				
Station Augmentation													Date																							
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 September 2019

Generated on 09/30/2019

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	67	19.4	65	18.3	84	0	000		29.18	3	0.00	30.11	FM-15	0.00	30.16
01	0153	7	CLR:00	10.00		69	20.6	66	18.9	65	18.3	87	0	000		29.18			30.11	FM-15	0.00	30.16
01	0253	7	OVC:08 55	10.00		69	20.6	66	18.9	65	18.3	87	0	000		29.18			30.11	FM-15	0.00	30.16
01	0353	7	SCT:04 60	10.00		67	19.4	65	18.3	64	17.8	91	0	000		29.18	3	0.00	30.11	FM-15	0.00	30.16
01	0451	6	FEW:02 3	10.00		66	18.9	64	17.8	63	17.2	88	0	000		29.19				FM-16		30.17
01	0453	7	FEW:02 3	10.00		66	18.9	64	17.8	63	17.2	90	0	000		29.19			30.12	FM-15	0.00	30.17
01	0520	7	BKN:07 2	10.00		66	18.9	64	17.8	63	17.2	90	0	000		29.19				FM-16		30.17
01	0545	7	OVC:08 2	1.50	BR:1	66	18.9	64	17.8	63	17.2	90	0	000		29.20				FM-16		30.18
01	0551	6	VV:09 2	0.75	BR:1	66	18.9	65	18.3	64	17.8	94	0	000		29.20				FM-16		30.18
01	0553	7	VV:09 2	0.50	FG:2  FG	66	18.9	65	18.3	64	17.8	93	0	000		29.20			30.13	FM-15	0.00	30.18
01	0607	7	OVC:08 2			66	18.9	65	18.3	64	17.8	93	0	000		29.20				FM-16		30.18
01	0653	7	OVC:08 2			66	18.9	65	18.3	64	17.8	93	0	000		29.22	3	-0.04	30.16	FM-15	0.00	30.20
01	0730	7	VV:09 2	0.50	FG:2  FG	66	18.9	65	18.3	64	17.8	93	3	080		29.23				FM-16		30.21
01	0744	7	OVC:08 2	1.25	BR:1	67	19.4	66	18.9	65	18.3	93	0	000		29.24				FM-16		30.22
01	0751	6	VV:09 2	0.75	BR:1	66	18.9	65	18.3	64	17.8	94	0	000		29.24				FM-16		30.22
01	0753	7	VV:09 2	0.50	FG:2  FG	67	19.4	66	18.9	65	18.3	93	0	000		29.24			30.18	FM-15	0.00	30.22
01	0810	7	OVC:08 2	2.00	BR:1	67	19.4	66	18.9	65	18.3	93	0	000		29.24				FM-16		30.22
01	0820	7	BKN:07 2	9.00		68	20.0	67	19.4	66	18.9	93	0	000		29.24				FM-16		30.22
01	0830	7	SCT:04 2	10.00		68	20.0	67	19.4	66	18.9	93	0	000		29.24				FM-16		30.22
01	0853	7	CLR:00	10.00		74	23.3	69	20.6	66	18.9	76	0	000		29.24			30.18	FM-15	0.00	30.22
01	0953	7	CLR:00	10.00		79	26.1	70	21.1	65	18.3	62	0	000		29.24	1	-0.02	30.17	FM-15	0.00	30.22
01	1053	7	CLR:00	10.00		82	27.8	70	21.1	63	17.2	53	0	000		29.24			30.17	FM-15	0.00	30.22
01	1153	7	CLR:00	10.00		85	29.4	71	21.7	64	17.8	50	0	000		29.22			30.15	FM-15	0.00	30.20
01	1253	7	SCT:04 49 BKN:07 60	10.00		86	30.0	71	21.7	64	17.8	48	3	VRB		29.20	8	+0.04	30.13	FM-15	0.00	30.18
01	1353	7	SCT:04 50 BKN:07 75	10.00		89	31.7	73	22.8	65	18.3	45	3	VRB		29.18			30.11	FM-15	0.00	30.16
01	1453	7	CLR:00	10.00		88	31.1	69	20.6	59	15.0	38	3	140		29.15			30.08	FM-15	0.00	30.13
01	1553	7	CLR:00	10.00		89	31.7	72	22.2	63	17.2	42	3	VRB		29.13	6	+0.07	30.06	FM-15	0.00	30.11
01	1653	7	CLR:00	10.00		88	31.1	70	21.1	61	16.1	40	0	000		29.13			30.05	FM-15	0.00	30.10
01	1753	7	CLR:00	10.00		87	30.6	71	21.7	62	16.7	43	0	000		29.13			30.05	FM-15	0.00	30.10
01	1853	7	CLR:00	10.00		82	27.8	71	21.7	65	18.3	56	0	000		29.13	5	+0.01	30.06	FM-15	0.00	30.10
01	1953	7	CLR:00	10.00		77	25.0	70	21.1	67	19.4	71	0	000		29.13			30.07	FM-15	0.00	30.10
01	2053	7	CLR:00	10.00		75	23.9	69	20.6	66	18.9	74	0	000		29.13			30.07	FM-15	0.00	30.11
01	2153	7	CLR:00	10.00		73	22.8	68	20.0	66	18.9	79	0	000		29.14	3	-0.03	30.08	FM-15	0.00	30.12
01	2253	7	CLR:00	10.00		71	21.7	68	20.0	66	18.9	84	0	000		29.15			30.08	FM-15	0.00	30.13
01	2353	7	BKN:07 70 BKN:07 80	10.00		72	22.2	68	20.0	66	18.9	82	0	000		29.15			30.07	FM-15	0.00	30.13

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**Local Climatological Data**  
**Hourly Remarks**  
**September 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 09/30/2019

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

Date	Time (LST)	Remarks
01	0053	MET11009/01/19 00:53:02 METAR KOQT 010553Z 00000KT 10SM CLR 21/18 A3016 RMK AO2 SLP198 T02110183 10289 20211 53000 \$
01	0153	MET09209/01/19 01:53:02 METAR KOQT 010653Z 00000KT 10SM CLR 21/18 A3016 RMK AO2 SLP197 T02060183 \$
01	0253	MET09509/01/19 02:53:02 METAR KOQT 010753Z 00000KT 10SM OVC055 21/18 A3016 RMK AO2 SLP197 T02060183 \$
01	0353	MET10109/01/19 03:53:02 METAR KOQT 010853Z 00000KT 10SM SCT060 19/18 A3016 RMK AO2 SLP198 T01940178 53000 \$
01	0451	MET08309/01/19 04:51:02 SPECI KOQT 010951Z 00000KT 10SM FEW003 19/17 A3017 RMK AO2 \$ FIBI
01	0453	MET09509/01/19 04:53:02 METAR KOQT 010953Z 00000KT 10SM FEW003 19/17 A3017 RMK AO2 SLP201 T01890172 \$
01	0520	MET08809/01/19 05:20:02 SPECI KOQT 011020Z 00000KT 10SM BKN002 19/17 A3017 RMK AO2 T01890172 \$
01	0545	MET09409/01/19 05:45:02 SPECI KOQT 011045Z 00000KT 1 1/2SM BR OVC002 19/17 A3018 RMK AO2 T01890172 \$
01	0551	MET08609/01/19 05:51:02 SPECI KOQT 011051Z 00000KT 3/4SM BR VV002 19/18 A3018 RMK AO2 \$ FIBI
01	0553	MET09809/01/19 05:53:02 METAR KOQT 011053Z 00000KT 1/2SM FG VV002 19/18 A3018 RMK AO2 SLP204 T01890178 \$
01	0607	MET08309/01/19 06:07:02 SPECI KOQT 011107Z 00000KT OVC002 19/18 A3018 RMK AO2 T01890178 \$
01	0653	MET10809/01/19 06:53:02 METAR KOQT 011153Z 00000KT OVC002 19/18 A3020 RMK AO2 SLP213 T01890178 10217 20183 53013 \$
01	0730	MET09109/01/19 07:30:02 SPECI KOQT 011230Z 08003KT 1/2SM FG VV002 19/18 A3021 RMK AO2 T01890178 \$
01	0744	MET09409/01/19 07:44:02 SPECI KOQT 011244Z 00000KT 1 1/4SM BR OVC002 19/18 A3022 RMK AO2 T01940183 \$
01	0751	MET08609/01/19 07:51:02 SPECI KOQT 011251Z 00000KT 3/4SM BR VV002 19/18 A3022 RMK AO2 \$ FIBI
01	0753	MET10209/01/19 07:53:02 METAR KOQT 011253Z 00000KT 1/2SM FG VV002 19/18 A3022 RMK AO2 SLP219 T01940183 \$ RTX
01	0810	MET09009/01/19 08:10:02 SPECI KOQT 011310Z 00000KT 2SM BR OVC002 19/18 A3022 RMK AO2 T01940183 \$
01	0820	MET08709/01/19 08:20:02 SPECI KOQT 011320Z 00000KT 9SM BKN002 20/19 A3022 RMK AO2 T02000189 \$
01	0830	MET08809/01/19 08:30:02 SPECI KOQT 011330Z 00000KT 10SM SCT002 20/19 A3022 RMK AO2 T02000189 \$
01	0853	MET09209/01/19 08:53:02 METAR KOQT 011353Z 00000KT 10SM CLR 23/19 A3022 RMK AO2 SLP220 T02330189 \$
01	0953	MET09809/01/19 09:53:02 METAR KOQT 011453Z 00000KT 10SM CLR 26/18 A3022 RMK AO2 SLP218 T02610183 51007 \$
01	1053	MET09209/01/19 10:53:02 METAR KOQT 011553Z 00000KT 10SM CLR 28/17 A3022 RMK AO2 SLP217 T02780172 \$
01	1153	MET09209/01/19 11:53:02 METAR KOQT 011653Z 00000KT 10SM CLR 29/18 A3020 RMK AO2 SLP210 T02940178 \$
01	1253	MET12009/01/19 12:53:02 METAR KOQT 011753Z VRB03KT 10SM SCT049 BKN060 30/18 A3018 RMK AO2 SLP204 T03000178 10306 20189 58013 \$
01	1353	MET10209/01/19 13:53:02 METAR KOQT 011853Z VRB03KT 10SM SCT050 BKN075 32/18 A3016 RMK AO2 SLP196 T03170183 \$
01	1453	MET09209/01/19 14:53:02 METAR KOQT 011953Z 14003KT 10SM CLR 31/15 A3013 RMK AO2 SLP185 T03110150 \$
01	1553	MET09809/01/19 15:53:02 METAR KOQT 012053Z VRB03KT 10SM CLR 32/17 A3011 RMK AO2 SLP180 T03170172 56024 \$
01	1653	MET09209/01/19 16:53:02 METAR KOQT 012153Z 00000KT 10SM CLR 31/16 A3010 RMK AO2 SLP176 T03110161 \$
01	1753	MET09609/01/19 17:53:02 METAR KOQT 012253Z 00000KT 10SM CLR 31/17 A3010 RMK AO2 SLP175 T03060167 \$ RTX
01	1853	MET11009/01/19 18:53:02 METAR KOQT 012353Z 00000KT 10SM CLR 28/18 A3010 RMK AO2 SLP179 T02780183 10322 20278 55004 \$
01	1953	MET09209/01/19 19:53:01 METAR KOQT 020053Z 00000KT 10SM CLR 25/19 A3010 RMK AO2 SLP182 T02500194 \$
01	2053	MET09209/01/19 20:53:01 METAR KOQT 020153Z 00000KT 10SM CLR 24/19 A3011 RMK AO2 SLP183 T02390189 \$
01	2153	MET09809/01/19 21:53:01 METAR KOQT 020253Z 00000KT 10SM CLR 23/19 A3012 RMK AO2 SLP186 T02280189 53009 \$
01	2253	MET09209/01/19 22:53:02 METAR KOQT 020353Z 00000KT 10SM CLR 22/19 A3013 RMK AO2 SLP186 T02170189 \$
01	2353	MET11209/01/19 23:53:02 METAR KOQT 020453Z 00000KT 10SM BKN070 BKN080 22/19 A3013 RMK AO2 SLP184 T02220189 403220183 \$

## Local Climatological Data Hourly Precipitation September 2019

Generated on 09/30/2019

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																									01	
02																										02
03																										03
04																										04
05																										05
06																										06
07																										07
08																										08
09																										09
10																										10
11																										11
12																										12
13																										13
14																			T							14
15																										15
16																										16
17																										17
18																					T	T				18
19																										19
20																										20
21																										21
22																										22
23																										23
24	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	24
25	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	25

**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