

### Local Climatological Data Daily Summary October 2020

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

Generated on 11/04/2020

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

Date	Temperature (F)							Degree Days (base 65F)		Sun (LST)		Weather Weather Type	Precipitation (in)			Pressure (inHg)		Wind Avg Speed	Maximum Wind Speed = MPH Direction = Degrees			
	Max	Min	Avg	Dep	ARH	ADP	AWB	Heat	Cool	Rise	Set		TLC	Snow Fall	Snow Depth	Avg Stn	Avg SL		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
01	73	49	61	-3.9				4	0	0633	1819		0.00			29.07		1.1	17	310	10	290
02	67	43	55	-9.6				10	0	0633	1818		0.00s			29.16		1.0	16	080	10	080
03	69	43	56	-8.2				9	0	0634	1817		0.00s			29.21		1.1	12	260	8	260
04	72	48	60	-3.8				5	0	0635	1815		0.00			29.18		1.2	17	210	9	150
05	72	49	61	-2.4				4	0	0636	1814		0.00			29.21		1.1	14	070	7	070
06	77	48	63	0.0				2	0	0637	1812	RA FG BR	0.00s			29.17		1.3	14	220	8	160
07	80	53	67	4.3				0	2	0638	1811	RA FG BR	0.00s			29.11		0.9	17	210	8	260
08	79	52	66	3.7				0	1	0638	1810	FG BR	0.00			29.15		0.4	*		4	170
09	72	62	67	5.0				0	2	0639	1808	RA	T			29.17		0.3	9	070	5	160
10	69	63	66	4.4				0	1	0640	1807	RA BR	1.41			29.07		2.3	14	050	8	070
11	72	65	69	7.8				0	4	0641	1805	RA BR	0.61			28.87		1.1	13	070	6	090
12	79	67	73	12.1				0	8	0642	1804	RA BR	T			28.92		1.4	14	170	8	170
13	73	48	61	0.5				4	0	0643	1803	RA BR	0.05			29.10		1.8	17	350	9	340
14	77	45	61	0.8				4	0	0644	1801	RA FG BR	0.00s			29.12		1.2	11	130	7	100
15	79	55	67	7.2				0	2	0644	1800		0.00			29.02		3.3	23	360	10	340
16	65	40	53	-6.5				12	0	0645	1759	RA BR	0.08			29.24		1.9	20	340	9	340
17	65	36*	51	-8.1				14	0	0646	1757	SN BR	0.00s			29.33		1.3	19	080	10	070
18	69	39	54	-4.8				11	0	0647	1756		0.00			29.30		0.5	12	160	7	170
19	74	52	63	4.5				2	0	0648	1755		0.00			29.24		1.3	13	240	8	260
20	76	52	64	5.9				1	0	0649	1754	RA FG BR	0.00s			29.23		0.1	8	290	5	340
21	80	52	66	8.2				0	1	0650	1753	RA FG BR	0.00s			29.26		0.1	8	290	5	090
22	81	57	69	11.6				0	4	0651	1751	RA FG BR	0.00s			29.21		0.1	9	100	6	130
23	81*	56	69	11.9				0	4	0652	1750	RA BR	0.00s			29.15		1.3	14	250	8	160
24	70	58	64	7.2				1	0	0653	1749	RA BR	0.92			29.07		1.5	11	090	7	090
25	73	57	65	8.6				0	0	0654	1748	BR	0.00			29.01		0.4	9	130	6	140
26	73	61	67	10.9				0	2	0655	1747		0.00			29.13		1.3	12	220	6	080
27	75	54	65	9.3				0	0	0655	1746		0.00			29.20		0.5	11	250	6	280
28	67	65	66	10.6				0	1	0656	1744	RA FG BR	2.29			29.08		0.6	8	060	5	060
29	80	58	69	13.9				0	4	0657	1743	RA BR	0.89			28.66		5.4	33	250	17	270
30	58	41	50	-4.7				15	0	0658	1742		0.00			29.15		3.1	21	330	12	330
31	64	39	52	-2.4				13	0	0659	1741		T					1.0	10	100	6	160

Monthly Averages   Totals													6.25s			29.13	30.09							
Departure from Normal (1981-2010)													3.33s											

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	0	0	7	5					
Date of 5-sec to 3-sec wind equipment change					Sea Level Pressure					Greatest...				
2007-03-22					Maximum		Date		Time		24-Hr...		Snow Depth	
					30.43		31		0948		Precip	Snowfall		
					Minimum		29.40		29		0547		3.14s	
														Date
											28-29			

**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  
 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 October 2020

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

Generated on 11/04/2020

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)	(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		56	13.3	54	12.2	53	11.7	90	0	000		29.07	0	-0.01	30.02	FM-15	0.00	30.04
01	0153	7	CLR:00	10.00		55	12.8	54	12.2	53	11.7	93	0	000		29.06			30.01	FM-15	0.00	30.03
01	0253	7	CLR:00	10.00		53	11.7	52	11.1	52	11.1	96	0	000		29.05			30.01	FM-15	0.00	30.02
01	0353	7	CLR:00	10.00		53	11.7	52	11.1	51	10.6	93	0	000		29.05	7	+0.02	30.00	FM-15	0.00	30.02
01	0453	7	CLR:00	10.00		52	11.1	51	10.6	51	10.6	97	0	000		29.05			30.00	FM-15	0.00	30.02
01	0553	7	CLR:00	10.00		53	11.7	52	11.1	51	10.6	93	0	000		29.05			30.01	FM-15	0.00	30.02
01	0653	7	CLR:00	10.00		52	11.1	51	10.6	51	10.6	97	0	000		29.06	3	-0.01	30.02	FM-15	0.00	30.03
01	0753	7	CLR:00	10.00		55	12.8	54	12.2	53	11.7	93	0	000		29.07			30.03	FM-15	0.00	30.04
01	0853	7	CLR:00	10.00		61	16.1	57	13.9	53	11.7	75	5	250		29.08			30.03	FM-15	0.00	30.05
01	0953	7	CLR:00	10.00		64	17.8	58	14.4	54	12.2	70	0	000		29.08	1	-0.02	30.03	FM-15	0.00	30.05
01	1053	7	CLR:00	10.00		68	20.0	59	15.0	53	11.7	59	0	000		29.08			30.03	FM-15	0.00	30.05
01	1153	7	FEW:02 40 SCT:04 55	10.00		71	21.7	60	15.6	52	11.1	51	0	000		29.07			30.02	FM-15	0.00	30.04
01	1253	6	BKN:07 46 OVC:08 60	10.00		71	21.7	60	15.6	51	10.6	49				29.07	8	+0.01	30.02	FM-15	0.00	30.04
01	1353	7	BKN:07 60	10.00		71	21.7	59	15.0	49	9.4	46	0	000		29.05			30.00	FM-15	0.00	30.02
01	1453	7	CLR:00	10.00		72	22.2	55	12.8	40	4.4	31	7	VRB	16	29.04			29.99	FM-15	0.00	30.01
01	1553	7	CLR:00	10.00		72	22.2	55	12.8	39	3.9	30	5	310		29.05	5	+0.02	30.00	FM-15	0.00	30.02
01	1653	7	CLR:00	10.00		68	20.0	53	11.7	38	3.3	33	5	VRB		29.07			30.02	FM-15	0.00	30.04
01	1753	7	CLR:00	10.00		68	20.0	53	11.7	38	3.3	33	5	310		29.08			30.03	FM-15	0.00	30.05
01	1853	7	CLR:00	10.00		59	15.0	52	11.1	45	7.2	60	0	000		29.09	1	-0.04	30.06	FM-15	0.00	30.06
01	1953	7	CLR:00	10.00		55	12.8	51	10.6	47	8.3	74	0	000		29.10			30.08	FM-15	0.00	30.08
01	2053	7	CLR:00	10.00		53	11.7	50	10.0	48	8.9	83	0	000		29.13			30.09	FM-15	0.00	30.10
01	2153	7	CLR:00	10.00		51	10.6	49	9.4	48	8.9	89	0	000		29.13	1	-0.04	30.10	FM-15	0.00	30.11
01	2253	7	CLR:00	10.00		50	10.0	48	8.9	47	8.3	89	0	000		29.14			30.11	FM-15	0.00	30.12
01	2353	7	OVC:08 100	10.00		49	9.4	48	8.9	47	8.3	93	0	000		29.14			30.11	FM-15	0.00	30.12

U.S. Department of Commerce  
National Oceanic & Atmospheric Administration  
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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**  
**October 2020**

Generated on 11/04/2020

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

Date	Time (LST)	Remarks
01	0053	MET11010/01/20 00:53:02 METAR KOQT 010553Z 00000KT 10SM CLR 13/12 A3004 RMK AO2 SLP166 T01330117 10189 20133 50004 \$
01	0153	MET09210/01/20 01:53:02 METAR KOQT 010653Z 00000KT 10SM CLR 13/12 A3003 RMK AO2 SLP163 T01280117 \$
01	0253	MET09210/01/20 02:53:02 METAR KOQT 010753Z 00000KT 10SM CLR 12/11 A3002 RMK AO2 SLP161 T01170111 \$
01	0353	MET10210/01/20 03:53:02 METAR KOQT 010853Z 00000KT 10SM CLR 12/11 A3002 RMK AO2 SLP159 T01170106 57006 \$ RTX
01	0453	MET09210/01/20 04:53:02 METAR KOQT 010953Z 00000KT 10SM CLR 11/11 A3002 RMK AO2 SLP159 T01110106 \$
01	0553	MET09010/01/20 05:53:02 METAR KOQT 011053Z 00000KT 10SM CLR 12/11 A3002 RMK AO2 SLP162 T01170106
01	0653	MET10810/01/20 06:53:02 METAR KOQT 011153Z 00000KT 10SM CLR 11/11 A3003 RMK AO2 SLP166 T01110106 10133 20111 53004
01	0753	MET09010/01/20 07:53:02 METAR KOQT 011253Z 00000KT 10SM CLR 13/12 A3004 RMK AO2 SLP168 T01280117
01	0853	MET09010/01/20 08:53:02 METAR KOQT 011353Z 25004KT 10SM CLR 16/12 A3005 RMK AO2 SLP170 T01610117
01	0953	MET09610/01/20 09:53:02 METAR KOQT 011453Z 00000KT 10SM CLR 18/12 A3005 RMK AO2 SLP169 T01780122 51006
01	1053	MET09010/01/20 10:53:02 METAR KOQT 011553Z 00000KT 10SM CLR 20/12 A3005 RMK AO2 SLP168 T02000117
01	1153	MET10010/01/20 11:53:02 METAR KOQT 011653Z 00000KT 10SM FEW040 SCT055 22/11 A3004 RMK AO2 SLP167 T02170111
01	1253	MET11810/01/20 12:53:02 METAR KOQT 011753Z KT 10SM BKN046 OVC060 22/11 A3004 RMK AO2 SLP165 T02170106 10228 20111 58003
01	1353	MET09510/01/20 13:53:02 METAR KOQT 011853Z 00000KT 10SM BKN060 22/09 A3002 RMK AO2 SLP160 T02170094 \$
01	1453	MET09510/01/20 14:53:02 METAR KOQT 011953Z VRB06G14KT 10SM CLR 22/04 A3001 RMK AO2 SLP157 T02220044 \$
01	1553	MET10210/01/20 15:53:02 METAR KOQT 012053Z 31004KT 10SM CLR 22/04 A3002 RMK AO2 SLP158 T02220039 55007 \$ RTX
01	1653	MET09610/01/20 16:53:02 METAR KOQT 012153Z VRB04KT 10SM CLR 20/03 A3004 RMK AO2 SLP166 T02000033 \$ RTX
01	1753	MET09210/01/20 17:53:02 METAR KOQT 012253Z 31004KT 10SM CLR 20/03 A3005 RMK AO2 SLP171 T02000033 \$
01	1853	MET11010/01/20 18:53:02 METAR KOQT 012353Z 00000KT 10SM CLR 15/07 A3006 RMK AO2 SLP178 T01500072 10228 20150 51015 \$
01	1953	MET09210/01/20 19:53:01 METAR KOQT 020053Z 00000KT 10SM CLR 13/08 A3008 RMK AO2 SLP186 T01280083 \$
01	2053	MET09210/01/20 20:53:01 METAR KOQT 020153Z 00000KT 10SM CLR 12/09 A3010 RMK AO2 SLP190 T01170089 \$
01	2153	MET09810/01/20 21:53:01 METAR KOQT 020253Z 00000KT 10SM CLR 11/09 A3011 RMK AO2 SLP192 T01060089 51014 \$
01	2253	MET09210/01/20 22:53:02 METAR KOQT 020353Z 00000KT 10SM CLR 10/08 A3012 RMK AO2 SLP195 T01000083 \$
01	2353	MET10510/01/20 23:53:02 METAR KOQT 020453Z 00000KT 10SM OVC100 09/08 A3012 RMK AO2 SLP195 T00940083 402280094 \$

**Local Climatological Data**  
**Hourly Precipitation**  
**October 2020**

Generated on 11/04/2020

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																									01	
02								T																	02	
03				T	T		T																		03	
04																									04	
05												M													05	
06				T			T																		06	
07					T						M	M	M												07	
08																									08	
09													T	T	T	T	T	T					T	T	09	
10	T	0.02	0.04	0.04	0.11	0.08	0.14	T	T	0.02	0.27	0.15	T	T		T	T	0.02	0.17	0.03	0.12	0.05	0.01	0.14	10	
11	0.21	0.18	0.01		0.01	0.02	0.06			0.05						0.01	0.01	0.01	0.02	0.02					11	
12											T														12	
13	0.05																								13	
14			T		T																				14	
15																									15	
16	T	T	0.03	0.01	0.01	0.02	0.01																		16	
17						T		T																	17	
18																									18	
19																									19	
20					T	T																			20	
21		T	T	T																					21	
22			T		T																				22	
23																								T	23	
24	0.02	0.15	0.09	0.03	0.09	0.17	0.04	T															T	0.32s	0.01	24
25																										25
26																										26
27																										27
28				T	T	T		0.02	0.01	0.01	0.08	0.48	0.49	0.26	0.56	0.21	0.01	0.01	0.02	T	0.02	0.03	0.05	0.03	28	
29	0.02	0.03	0.08	0.07	0.23	0.31	0.09	0.04	T	0.01	0.01		T												29	
30																										30
31					T			T											M	M	M	M	M			31

**Maximum Short Duration Precipitation**

Time Period (Minutes)	5	10	15	20	30	45	60	80	100	120	150	180
Precipitation (inches)	0.10	0.17	0.22	0.27	0.38	0.50	0.62	0.76	0.91	1.05	1.17	1.32
Ending Date Time (yyyy-mm-dd hh:mi)	2020-10-28 14:59	2020-10-28 14:59	2020-10-28 15:01	2020-10-28 15:00	2020-10-28 15:08	2020-10-28 15:13	2020-10-28 12:21	2020-10-28 12:42	2020-10-28 13:05	2020-10-28 13:20	2020-10-28 13:31	2020-10-28 15:01

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