

**Local Climatological Data**  
**Daily Summary**  
**August 2020**

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

Generated on 09/09/2020

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	91	73	82	3.5				0	17	0545	1941	BR	0.00			28.95		3.7	26	190	12	210		
02	86	70	78	-0.5				0	13	0546	1940		0.00			29.03		2.5	17	240	10	270		
03	84	67	76	-2.5				0	11	0546	1939	RA	0.03			29.03		1.3	12	160	7	150		
04	87	67	77	-1.5				0	12	0547	1938	RA BR	0.26			29.00		1.7	20	280	12	290		
05	90	66	78	-0.4				0	13	0548	1937	FG BR	0.00			29.08		1.7	21	140	13	130		
06	86	70	78	-0.4				0	13	0549	1936	RA BR	0.05			29.08		1.3	14	070	7	060		
07	89	67	78	-0.4				0	13	0550	1935	FG BR	0.00			29.12		0.7	12	360	7	010		
08	92	66	79	0.7				0	14	0550	1934		0.00			29.18		0.9	12	270	8	270		
09	94*	65	80	1.7				0	15	0551	1933		0.00			29.18		1.2	13	270	7	340		
10	84	70	77	-1.3				0	12	0552	1932	RA FG BR	0.76			29.14		0.8	20	330	8	340		
11	92	72	82	3.8				0	17	0553	1931	RA BR	0.27			29.05		2.0	14	280	8	290		
12	92	70	81	2.8				0	16	0553	1930		0.00			29.07		1.0	14	080	7	300		
13	89	72	81	2.9				0	16	0554	1928	RA	0.03			29.06		1.1	16	220	8	210		
14	85	72	79	1.0				0	14	0555	1927	BR	T			29.00		1.6	14	260	8	280		
15	83	71	77	-1.0				0	12	0556	1926	RA BR	0.28			28.94		1.0	17	080	9	070		
16	89	68	79	1.1				0	14	0557	1925	FG BR	0.00			29.00		0.4	14	080	8	090		
17	88	68	78	0.2				0	13	0557	1924	BR	0.00			29.06		1.3	12	340	8	330		
18	90	64*	77	-0.7				0	12	0558	1922	RA	T			29.00		2.2	17	080	9	060		
19	84	66	75	-2.6				0	10	0559	1921		0.00			28.98		1.8	17	080	10	080		
20	86	67	77	-0.5				0	12	0600	1920	RA FG BR	1.01			29.00		1.8	27s	130s	15	150		
21	82	69	76	-1.4				0	11	0601	1918	RA BR	0.42			28.99		1.2	16	090	9	090		
22	85	69	77	-0.3				0	12	0601	1917	RA FG BR	T			29.01		1.3	18	170	9	110		
23	84	68	76	-1.1				0	11	0602	1916	RA BR	0.12			29.11		0.9	24	280	13	260		
24	89	69	79	2.0				0	14	0603	1914	RA BR	0.26			29.16		0.4	13	200	7	160		
25	87	71	79	2.2				0	14	0604	1913		0.01			29.15		1.2	17	200	9	160		
26	88	69	79	2.4				0	14	0605	1912	FG BR	0.00			29.15		1.2	10	110	7	120		
27	87	72	80	3.5				0	15	0605	1910	BR	0.00			29.10		1.5	15	260	8	260		
28	86	76	81	4.7				0	16	0606	1909	RA	0.01			29.00		2.9	25	190	8	190		
29	88	73	81	4.9				0	16	0607	1908	RA BR	0.74			28.86		4.5	23	240	10	250		
30	87	71	79	3.1				0	14	0608	1906	RA BR	T			28.90		1.5	24	150	12	160		
31	86	71	79	3.4				0	14	0608	1905	RA BR	0.08			28.94		1.6	25	150	12	140		
	87.4	69.3	78.4										Monthly Averages   Totals			4.33s		29.04	29.97					
	-0.6	2.1	0.8										Departure from Normal (1981-2010)			1.57s								

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				7	0	0	0	15	9			

Date of 5-sec to 3-sec wind equipment change		Sea Level Pressure			Greatest...	
2007-03-22		Maximum	Date	Time	24-Hr...	
		Minimum			Precip	Snowfall
					Date	
		30.17	24	1046	1.18s	
		29.69	29	0230		
				20-21		

**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

**Local Climatological Data**  
**Hourly Observations**  
**August 2020**

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

Generated on 09/09/2020

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

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	BKN:07 3 OVC:08 13	4.00	BR:1	73	22.8	71	21.7	70	21.1	90	0	000		28.96	6	+0.02	29.87	FM-15	0.00	29.93
01	0128	7	SCT:04 2 BKN:07 6 OVC:08 9	4.00	BR:1	73	22.8	71	21.7	70	21.1	90	0	000		28.95				FM-16		29.92
01	0137	7	BKN:07 2 OVC:08 10	4.00	BR:1	73	22.8	71	21.7	70	21.1	90	0	000		28.95				FM-16		29.92
01	0153	7	BKN:07 3 BKN:07 10 OVC:08 24	4.00	BR:1	73	22.8	71	21.7	70	21.1	90	0	000		28.94			29.85	FM-15	0.00	29.91
01	0158	7	SCT:04 3 SCT:04 10 BKN:07 24	5.00	BR:1	73	22.8	71	21.7	70	21.1	90	0	000		28.94				FM-16		29.91
01	0231	7	FEW:02 8 BKN:07 40 OVC:08 50	5.00	BR:1	73	22.8	71	21.7	70	21.1	90	0	000		28.94				FM-16		29.91
01	0253	7	BKN:07 23 BKN:07 42 OVC:08 60	5.00	BR:1	73	22.8	72	22.2	71	21.7	94	0	000		28.94			29.86	FM-15	0.00	29.91
01	0353	7	BKN:07 24 OVC:08 35	9.00		74	23.3	72	22.2	71	21.7	91	0	000		28.95	5	+0.01	29.87	FM-15	0.00	29.92
01	0404	7	SCT:04 24 OVC:08 31	9.00		74	23.3	72	22.2	71	21.7	91	0	000		28.95				FM-16		29.92
01	0433	7	BKN:07 28 OVC:08 34	10.00		74	23.3	72	22.2	71	21.7	91	0	000		28.95				FM-16		29.92
01	0453	7	BKN:07 27 BKN:07 34	10.00		74	23.3	72	22.2	71	21.7	91	0	000		28.95			29.88	FM-15	0.00	29.92
01	0503	7	SCT:04 27 SCT:04 37	10.00		73	22.8	72	22.2	71	21.7	94	0	000		28.96				FM-16		29.93
01	0553	7	FEW:02 55 SCT:04 70	10.00		73	22.8	71	21.7	70	21.1	90	0	000		28.97			29.90	FM-15	0.00	29.94
01	0653	7	FEW:02 20 OVC:08 55	10.00		74	23.3	71	21.7	70	21.1	88	3	VRB		28.98	3	-0.02	29.91	FM-15	0.00	29.95
01	0727	7	BKN:07 23 BKN:07 31 OVC:08 39	10.00		75	23.9	72	22.2	70	21.1	84	3	VRB		28.98				FM-16		29.95
01	0736	7	SCT:04 23 BKN:07 35	10.00		75	23.9	72	22.2	70	21.1	84	0	000		28.98				FM-16		29.95
01	0753	7	SCT:04 27 SCT:04 39 BKN:07 60	10.00		77	25.0	72	22.2	70	21.1	79	0	000		28.98			29.90	FM-15	0.00	29.95
01	0839	7	BKN:07 17	10.00		78	25.6	73	22.8	71	21.7	79	3	VRB		28.98				FM-16		29.95
01	0853	7	BKN:07 18 OVC:08 24	10.00		78	25.6	73	22.8	70	21.1	76	5	VRB		28.98			29.90	FM-15	0.00	29.95
01	0928	7	SCT:04 20	10.00		80	26.7	74	23.3	71	21.7	74	5	VRB		28.97				FM-16		29.94
01	0951	6	SCT:04 22 BKN:07 27 BKN:07 75	10.00		81	27.2	75	23.9	72	22.2	74	0	000		28.97				FM-16		29.94
01	0953	6	SCT:04 22 BKN:07 27 BKN:07 75	10.00		82	27.8	74	23.3	71	21.7	69				28.97	8	0.00	29.89	FM-15	0.00	29.94

01	1031	7	SCT:04 25 SCT:04 30 BKN:07 65	10.00		83	28.3	74	23.3	70	21.1	65	8	VRB		28.97				FM-16		29.94
01	1053	7	FEW:02 29 FEW:02 39	10.00		84	28.9	74	23.3	70	21.1	63	6	VRB		28.97			29.89	FM-15	0.00	29.94
01	1153	6	FEW:02 42 FEW:02 50 SCT:04 60	10.00		86	30.0	75	23.9	70	21.1	59				28.96			29.87	FM-15	0.00	29.93
01	1253	7	CLR:00	10.00		87	30.6	75	23.9	69	20.6	55	10	VRB	22	28.94	8	+0.04	29.85	FM-15	0.00	29.91
01	1353	7	FEW:02 55 FEW:02 75 SCT:04 90	10.00		89	31.7	76	24.4	70	21.1	53	6	VRB		28.92			29.83	FM-15	0.00	29.89
01	1453	7	FEW:02 46	10.00		90	32.2	74	23.3	67	19.4	47	11	VRB	21	28.90			29.81	FM-15	0.00	29.87
01	1553	7	FEW:02 55 SCT:04 70	10.00		90	32.2	74	23.3	66	18.9	45	7	VRB	23	28.89	6	+0.05	29.80	FM-15	0.00	29.86
01	1653	6	FEW:02 60 SCT:04 80	10.00		88	31.1	73	22.8	66	18.9	48				28.90			29.81	FM-15	0.00	29.87
01	1753	6	CLR:00	10.00		87	30.6	72	22.2	65	18.3	48				28.91			29.83	FM-15	0.00	29.88
01	1853	7	SCT:04 70	10.00		85	29.4	70	21.1	62	16.7	46	7	VRB		28.94	3	-0.05	29.86	FM-15	0.00	29.91
01	1953	7	SCT:04 75	10.00		82	27.8	70	21.1	63	17.2	53	5	VRB		28.95			29.87	FM-15	0.00	29.92
01	2053	7	SCT:04 80	10.00		81	27.2	70	21.1	64	17.8	57	3	VRB		28.96			29.88	FM-15	0.00	29.93
01	2153	7	FEW:02 75	10.00		79	26.1	70	21.1	65	18.3	62	3	VRB		28.98	3	-0.04	29.89	FM-15	0.00	29.95
01	2253	7	CLR:00	10.00		78	25.6	70	21.1	65	18.3	64	3	VRB		28.97			29.89	FM-15	0.00	29.94
01	2353	7	CLR:00	10.00		77	25.0	69	20.6	65	18.3	66	5	VRB		28.98			29.89	FM-15	0.00	29.95

U.S. Department of Commerce  
 National Oceanic & Atmospheric Administration  
 National Environmental Satellite, Data, and Information Service

**Local Climatological Data**  
**Hourly Remarks**  
**August 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 09/09/2020

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

Date	Time (LST)	Remarks
01	0053	MET12608/01/20 00:53:02 METAR KOQT 010553Z 00000KT 4SM BR BKN003 OVC013 23/21 A2993 RMK AO2 SLP114 60001 T02280211 10228 20228 56008
01	0128	MET11408/01/20 01:28:02 SPECI KOQT 010628Z 00000KT 4SM BR SCT002 BKN006 OVC009 23/21 A2992 RMK AO2 CIG 004V008 T02280211
01	0137	MET09908/01/20 01:37:02 SPECI KOQT 010637Z 00000KT 4SM BR BKN002 OVC010 23/21 A2992 RMK AO2 T02280211 RTX
01	0153	MET10908/01/20 01:53:02 METAR KOQT 010653Z 00000KT 4SM BR BKN003 BKN010 OVC024 23/21 A2991 RMK AO2 SLP108 T02280211
01	0158	MET10208/01/20 01:58:02 SPECI KOQT 010658Z 00000KT 5SM BR SCT003 SCT010 BKN024 23/21 A2991 RMK AO2 T02280211
01	0231	MET10208/01/20 02:31:02 SPECI KOQT 010731Z 00000KT 5SM BR FEW008 BKN040 OVC050 23/21 A2991 RMK AO2 T02280211
01	0253	MET10908/01/20 02:53:02 METAR KOQT 010753Z 00000KT 5SM BR BKN023 BKN042 OVC060 23/22 A2991 RMK AO2 SLP111 T02280217
01	0353	MET10508/01/20 03:53:02 METAR KOQT 010853Z 00000KT 9SM BKN024 OVC035 23/22 A2992 RMK AO2 SLP115 T02330217 55002
01	0404	MET09208/01/20 04:04:02 SPECI KOQT 010904Z 00000KT 9SM SCT024 OVC031 23/22 A2992 RMK AO2 T02330217
01	0433	MET09308/01/20 04:33:02 SPECI KOQT 010933Z 00000KT 10SM BKN028 OVC034 23/22 A2992 RMK AO2 T02330217
01	0453	MET10008/01/20 04:53:02 METAR KOQT 010953Z 00000KT 10SM BKN027 BKN034 23/22 A2992 RMK AO2 SLP118 T02330217
01	0503	MET09308/01/20 05:03:02 SPECI KOQT 011003Z 00000KT 10SM SCT027 SCT037 23/22 A2993 RMK AO2 T02280217
01	0553	MET10008/01/20 05:53:02 METAR KOQT 011053Z 00000KT 10SM FEW055 SCT070 23/21 A2994 RMK AO2 SLP124 T02280211
01	0653	MET12408/01/20 06:53:02 METAR KOQT 011153Z VRB03KT 10SM FEW020 OVC055 23/21 A2995 RMK AO2 SLP127 70013 T02330211 10239 20228 53008
01	0727	MET10008/01/20 07:27:02 SPECI KOQT 011227Z VRB03KT 10SM BKN023 BKN031 OVC039 24/21 A2995 RMK AO2 T02390211
01	0736	MET09308/01/20 07:36:02 SPECI KOQT 011236Z 00000KT 10SM SCT023 BKN035 24/21 A2995 RMK AO2 T02390211
01	0753	MET10708/01/20 07:53:02 METAR KOQT 011253Z 00000KT 10SM SCT027 SCT039 BKN060 25/21 A2995 RMK AO2 SLP126 T02500211
01	0839	MET08608/01/20 08:39:02 SPECI KOQT 011339Z VRB03KT 10SM BKN017 26/22 A2995 RMK AO2 T02560217
01	0853	MET10008/01/20 08:53:02 METAR KOQT 011353Z VRB04KT 10SM BKN018 OVC024 26/21 A2995 RMK AO2 SLP125 T02560211
01	0928	MET08608/01/20 09:28:02 SPECI KOQT 011428Z VRB04KT 10SM SCT020 27/22 A2994 RMK AO2 T02670217
01	0951	MET09508/01/20 09:51:02 SPECI KOQT 011451Z 00000KT 10SM SCT022 BKN027 BKN075 27/22 A2994 RMK AO2 FIBI
01	0953	MET11308/01/20 09:53:02 METAR KOQT 011453Z KT 10SM SCT022 BKN027 BKN075 28/22 A2994 RMK AO2 SLP122 T02780217 58001
01	1031	MET10008/01/20 10:31:02 SPECI KOQT 011531Z 20007KT 10SM SCT025 SCT030 BKN065 28/21 A2994 RMK AO2 T02830211
01	1053	MET10008/01/20 10:53:02 METAR KOQT 011553Z VRB05KT 10SM FEW029 FEW039 29/21 A2994 RMK AO2 SLP121 T02890211
01	1153	MET10708/01/20 11:53:02 METAR KOQT 011653Z KT 10SM FEW042 FEW050 SCT060 30/21 A2993 RMK AO2 SLP115 T03000211
01	1253	MET11108/01/20 12:53:02 METAR KOQT 011753Z 20009G19KT 10SM CLR 31/21 A2991 RMK AO2 SLP108 T03060206 10311 20233 58012
01	1353	MET10708/01/20 13:53:02 METAR KOQT 011853Z VRB05KT 10SM FEW055 FEW075 SCT090 32/21 A2989 RMK AO2 SLP103 T03170211
01	1453	MET09608/01/20 14:53:02 METAR KOQT 011953Z 20010G18KT 10SM FEW046 32/19 A2987 RMK AO2 SLP095 T03220194
01	1553	MET10908/01/20 15:53:02 METAR KOQT 012053Z VRB06G20KT 10SM FEW055 SCT070 32/19 A2986 RMK AO2 SLP091 T03220189 56016
01	1653	MET10008/01/20 16:53:02 METAR KOQT 012153Z KT 10SM FEW060 SCT080 31/19 A2987 RMK AO2 SLP096 T03110189
01	1753	MET09908/01/20 17:53:02 METAR KOQT 012253Z KT 10SM CLR 31/18 A2988 RMK AO2 SLP101 T03060183 RTX FIBI
01	1853	MET11108/01/20 18:53:02 METAR KOQT 012353Z VRB06KT 10SM SCT070 29/17 A2991 RMK AO2 SLP111 T02940167 10328 20294 53018
01	1953	MET09308/01/20 19:53:01 METAR KOQT 020053Z VRB04KT 10SM SCT075 28/17 A2992 RMK AO2 SLP114 T02780172
01	2053	MET09308/01/20 20:53:01 METAR KOQT 020153Z VRB03KT 10SM SCT080 27/18 A2993 RMK AO2 SLP117 T02720178
01	2153	MET09908/01/20 21:53:01 METAR KOQT 020253Z VRB03KT 10SM FEW075 26/18 A2995 RMK AO2 SLP123 T02610183 53012
01	2253	MET09008/01/20 22:53:01 METAR KOQT 020353Z VRB03KT 10SM CLR 26/18 A2994 RMK AO2 SLP121 T02560183
01	2353	MET10008/01/20 23:53:01 METAR KOQT 020453Z VRB04KT 10SM CLR 25/18 A2995 RMK AO2 SLP123 T02500183 403280228

**Local Climatological Data**  
**Hourly Precipitation**  
**August 2020**

Generated on 09/09/2020

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																										02
03										0.01	0.02															03
04																				0.13	0.13					04
05																										05
06												0.02	0.03													06
07																										07
08																										08
09																										09
10		T			0.04	0.13	0.01	0.02	0.02	0.07s	0.45	0.01	T	0.01												10
11		0.26	0.01			T																				11
12																										12
13														0.02	T	T	0.01	T	T							13
14														T												14
15								0.04	0.13	0.01	T	T				0.01	0.07	0.01	0.01	T						15
16																										16
17																										17
18																								T	T	18
19																										19
20																										20
21								T	T			0.17	T													21
22													T	T												22
23			T	0.02		T	T	0.01	T	T									T		T	0.09			T	23
24	0.26																									24
25														T				T	0.01							25
26																										26
27																										27
28					T	T	T	T	T	T								T	0.01				T	T	T	28
29	0.02	0.19	0.06	0.02	0.12	0.07	0.03																			29
30								T																		30
31	0.04s	0.04		T								T	T	T												31

**Maximum Short Duration Precipitation**

Time Period (Minutes)	5	10	15	20	30	45	60	80	100	120	150	180
Precipitation (inches)	0.32	0.58	0.79	0.92	0.95	0.99	1.01	1.01	1.01	1.01	1.01	1.01
Ending Date Time (yyyy-mm-dd hh:mi)	2020-08-20 16:00	2020-08-20 16:05	2020-08-20 16:10	2020-08-20 16:15	2020-08-20 16:25	2020-08-20 16:37	2020-08-20 16:47	2020-08-20 16:47	2020-08-20 16:47	2020-08-20 16:47	2020-08-20 16:47	2020-08-20 16:47

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