

Local Climatological Data
Daily Summary
September 2020

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

Generated on 10/07/2020

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	88	72	80	4.6				0	15	0609	1903	RA	0.01			29.02		1.2	13	220	8	260																									
02	91	74	83	7.8				0	18	0610	1902	BR	0.00			29.00		3.0	20	270	9	200																									
03	89	73	81	6.1				0	16	0611	1901	RA BR	0.27			28.99		2.4	24	290	12	260																									
04	91	65	78	3.4				0	13	0612	1859	BR	T			29.10		2.7	20	330	10	330																									
05	84	62	73	-1.3				0	8	0612	1858		0.00			29.29		1.3	14	070	8	080																									
06	85	58	72	-2.1				0	7	0613	1856	RA FG BR	0.00s			29.23		1.3	13	080	8	080																									
07	86	59	73	-0.8				0	8	0614	1855	FG BR	0.00			29.08		0.7	*		5	099																									
08	88	63	76	2.5				0	11	0615	1853	FG BR	0.00			29.10		0.7	14	080	9	090																									
09	89	64	77	3.9				0	12	0615	1852	FG BR	0.00			29.18		1.3	13	060	9	080																									
10	89	69	79	6.2				0	14	0616	1850		0.00			29.21		1.2	11	070	6	340																									
11	91*	70	81	8.5				0	16	0617	1849		0.00			29.15		1.3	14	090	8	080																									
12	89	72	81	8.9				0	16	0618	1847	RA FG BR	0.31			29.08		0.7	21s	190s	10	170																									
13	87	71	79	7.2				0	14	0618	1846	RA FG BR	T			29.10		1.8	16	330	9	330																									
14	86	69	78	6.6				0	13	0619	1845		0.00			29.18		3.2	17	010	9	060																									
15	85	67	76	4.9				0	11	0620	1843		T			29.20		2.6	14	070	8	090																									
16	82	66	74	3.3				0	9	0621	1842		0.00			29.12		2.3	14	080	9	090																									
17	81	67	74	3.7				0	9	0622	1840	RA	0.03			28.95		3.7	20	090	12	080																									
18	76	61	69	-1.0				0	4	0622	1839		0.00			29.06		2.7	21	010	10	360																									
19	73	57	65	-4.6				0	0	0623	1837		0.00			29.23		1.1	15	080	9	070																									
20	76	54	65	-4.2				0	0	0624	1836	BR	T			29.31		1.8	19	090	10	090																									
21	75	48	62	-6.8				3	0	0625	1834		0.00			29.39		1.8	14	060	7	100																									
22	73	47	60	-8.4				5	0	0625	1833	FG BR	0.00			29.28		0.8	11	040	6	130																									
23	72	57	65	-3.0				0	0	0626	1831	RA	T			29.13		1.2	13	040	8	080																									
24	63	59	61	-6.6				4	0	0627	1830	RA BR	1.49			29.08		1.5	12	070	7	070																									
25	68	61	65	-2.3				0	0	0628	1828	RA BR	0.71			29.02		0.8	11	030	7	040																									
26	77	61	69	2.1				0	4	0629	1827	FG BR	0.00			29.07		0.3	12	090	7	090																									
27	79	61	70	3.5				0	5	0629	1825	RA FG BR	0.03			29.00		0.0	13	160	7	170																									
28	82	58	70	3.9				0	5	0630	1824	RA BR	0.87			28.90		3.3	24	150	10	190																									
29	64	51	58	-7.7				7	0	0631	1822	RA BR	0.10			28.97		0.5	9	280	6	290																									
30	72	47*	60	-5.3				5	0	0632	1821	RA FG BR	0.00s			29.03		2.0	20	220	10	190																									
Monthly Averages Totals													3.82s			29.11	30.06																														
Departure from Normal (1981-2010)													0.13s																																		
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										3		0		0		0		9		6																											
Date of 5-sec to 3-sec wind equipment change								Sea Level Pressure								Greatest...																															
2007-03-22								Maximum				30.45				Date				21				Time				1014				24-Hr... Precip				1.91s				Snowfall				Snow Depth			
								Minimum				29.72				28				1637																											
																Date				24-25																											
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
September 2020

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

Generated on 10/07/2020

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

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)											
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		74	23.3	72	22.2	71	21.7	91	0	000		29.00	2	-0.04	29.93	FM-15	0.00	29.97
01	0153	7	SCT:04 29 BKN:07 80 OVC:08 100	10.00		74	23.3	72	22.2	71	21.7	91	0	000		29.00			29.92	FM-15	0.00	29.97
01	0201	7	BKN:07 29 OVC:08 80	10.00		74	23.3	72	22.2	71	21.7	91	0	000		29.00				FM-16		29.97
01	0243	7	SCT:04 30 SCT:04 37	10.00		74	23.3	72	22.2	71	21.7	91	0	000		29.00				FM-16		29.97
01	0253	7	BKN:07 33 BKN:07 90	10.00		74	23.3	72	22.2	71	21.7	91	0	000		29.00			29.91	FM-15	0.00	29.97
01	0353	7	CLR:00	10.00		73	22.8	72	22.2	71	21.7	94	0	000		28.98	8	+0.02	29.90	FM-15	0.00	29.95
01	0453	7	SCT:04 110	10.00		72	22.2	71	21.7	70	21.1	94	0	000		28.99			29.91	FM-15	0.00	29.96
01	0553	7	BKN:07 60	10.00		72	22.2	71	21.7	70	21.1	94	0	000		29.02			29.94	FM-15	0.00	29.99
01	0613	7	FEW:02 7 BKN:07 65	10.00		72	22.2	71	21.7	70	21.1	94	0	000		29.03				FM-16		30.00
01	0631	7	BKN:07 8 BKN:07 65	10.00		72	22.2	71	21.7	70	21.1	94	0	000		29.03				FM-16		30.00
01	0650	7	SCT:04 8 BKN:07 37 OVC:08 50	10.00		73	22.8	71	21.7	70	21.1	89	0	000		29.04				FM-16		30.01
01	0653	7	SCT:04 8 BKN:07 37 OVC:08 48	10.00		73	22.8	71	21.7	70	21.1	90	0	000		29.05	1	-0.05	29.96	FM-15	0.00	30.02
01	0719	7	FEW:02 12 BKN:07 21 OVC:08 36	10.00		73	22.8	72	22.2	71	21.7	94	0	000		29.06				FM-16		30.03
01	0744	7	BKN:07 8 BKN:07 21 BKN:07 37	10.00		74	23.3	72	22.2	71	21.7	91	0	000		29.06				FM-16		30.03
01	0753	7	BKN:07 8	10.00		74	23.3	72	22.2	71	21.7	91	3	VRB		29.06			29.98	FM-15	0.00	30.03
01	0853	7	OVC:08 7	10.00		76	24.4	73	22.8	72	22.2	88	0	000		29.06			29.98	FM-15	0.00	30.03
01	0936	7	BKN:07 10	10.00		76	24.4	73	22.8	72	22.2	88	0	000		29.07				FM-16		30.04
01	0953	7	BKN:07 10 OVC:08 60	10.00		78	25.6	74	23.3	72	22.2	82	0	000		29.07	1	-0.02	29.99	FM-15	0.00	30.04
01	1051	6	BKN:07 16 OVC:08 47	10.00		81	27.2	75	23.9	72	22.2	74	5	250		29.06				FM-16		30.03
01	1053	7	BKN:07 16 OVC:08 47	10.00		81	27.2	75	23.9	72	22.2	74	0	000		29.06			29.98	FM-15	0.00	30.03
01	1110	7	SCT:04 16 BKN:07 37	10.00		81	27.2	75	23.9	72	22.2	74	3	VRB		29.06				FM-16		30.03
01	1151	6	FEW:02 21 BKN:07 27 OVC:08 39	10.00		81	27.2	75	23.9	72	22.2	74	5	220		29.05				FM-16		30.02
01	1153	7	FEW:02 19 BKN:07 27 OVC:08 39	10.00		81	27.2	75	23.9	72	22.2	74	0	000		29.05			29.97	FM-15	0.00	30.02
01	1210	7	FEW:02 18 SCT:04 26 BKN:07 36	10.00		82	27.8	75	23.9	72	22.2	72	3	210		29.05				FM-16		30.02
01	1253	7	FEW:02 22 SCT:04 28 SCT:04 39	10.00		84	28.9	76	24.4	72	22.2	67	0	000		29.04	8	+0.03	29.96	FM-15	0.00	30.01

01	1328	7	SCT:04 24 BKN:07 29 OVC:08 50	10.00		84	28.9	76	24.4	72	22.2	67	5	VRB		29.03				FM-16		30.00
01	1340	7	FEW:02 24 SCT:04 29 BKN:07 42	10.00		84	28.9	76	24.4	72	22.2	67	5	VRB		29.03				FM-16		30.00
01	1353	7	SCT:04 26 SCT:04 32 BKN:07 40	10.00		86	30.0	77	25.0	73	22.8	65	5	VRB		29.03			29.94	FM-15	0.00	30.00
01	1453	6	FEW:02 29	10.00		86	30.0	76	24.4	71	21.7	61				29.00			29.92	FM-15	0.00	29.97
01	1553	6	CLR:00	10.00		87	30.6	76	24.4	71	21.7	59	3	VRB		28.99	6	+0.04	29.91	FM-15	0.00	29.96
01	1653	7	CLR:00	10.00		86	30.0	76	24.4	71	21.7	61	5	VRB		29.00			29.92	FM-15	0.00	29.97
01	1753	7	CLR:00	10.00		85	29.4	76	24.4	72	22.2	65	3	VRB		29.01			29.93	FM-15	0.00	29.98
01	1853	7	CLR:00	10.00		83	28.3	76	24.4	73	22.8	72	0	000		29.02	1	-0.02	29.94	FM-15	0.00	29.99
01	1953	7	CLR:00	10.00		82	27.8	76	24.4	74	23.3	77	0	000		29.03			29.95	FM-15	0.00	30.00
01	2053	7	FEW:02 100	7.00	-RA:02 RA RA	79	26.1	77	25.0	76	24.4	90	3	200		29.04			29.96	FM-15	0.01	30.01
01	2153	7	CLR:00	10.00		77	25.0	76	24.4	75	23.9	94	5	VRB		29.03	0	-0.01	29.95	FM-15	T	30.00
01	2200	7	FEW:02 8	10.00		77	25.0	76	24.4	75	23.9	94	0	000		29.03				FM-16		30.00
01	2216	7	BKN:07 8	10.00		77	25.0	76	24.4	75	23.9	94	3	VRB		29.03				FM-16		30.00
01	2253	7	OVC:08 7	10.00		77	25.0	76	24.4	75	23.9	94	0	000		29.02			29.94	FM-15	0.00	29.99
01	2351	6	SCT:04 6	10.00		75	23.9	74	23.3	73	22.8	94	3	180		29.01				FM-16		29.98
01	2353	7	SCT:04 6	10.00		76	24.4	75	23.9	74	23.3	94	0	000		29.01			29.93	FM-15	0.00	29.98

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

Local Climatological Data
Hourly Remarks
September 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 10/07/2020

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

Date	Time (LST)	Remarks
01	0053	MET11409/01/20 00:53:02 METAR KOQT 010553Z 0000KT 10SM CLR 23/22 A2997 RMK AO2 SLP134 60000 T02330217 10272 20233 52014
01	0153	MET10709/01/20 01:53:02 METAR KOQT 010653Z 0000KT 10SM SCT029 BKN080 OVC100 23/22 A2997 RMK AO2 SLP133 T02330217
01	0201	MET09309/01/20 02:01:02 SPECI KOQT 010701Z 0000KT 10SM BKN029 OVC080 23/22 A2997 RMK AO2 T02330217
01	0243	MET09309/01/20 02:43:02 SPECI KOQT 010743Z 0000KT 10SM SCT030 SCT037 23/22 A2997 RMK AO2 T02330217
01	0253	MET10009/01/20 02:53:02 METAR KOQT 010753Z 0000KT 10SM BKN033 BKN090 23/22 A2997 RMK AO2 SLP130 T02330217
01	0353	MET10009/01/20 03:53:02 METAR KOQT 010853Z 0000KT 10SM CLR 23/22 A2995 RMK AO2 SLP126 T02280217 58007 RTX
01	0453	MET09309/01/20 04:53:02 METAR KOQT 010953Z 0000KT 10SM SCT110 22/21 A2996 RMK AO2 SLP130 T02220211
01	0553	MET09309/01/20 05:53:02 METAR KOQT 011053Z 0000KT 10SM BKN060 22/21 A2999 RMK AO2 SLP139 T02220211
01	0613	MET09309/01/20 06:13:02 SPECI KOQT 011113Z 0000KT 10SM FEW007 BKN065 22/21 A3000 RMK AO2 T02220211
01	0631	MET09309/01/20 06:31:02 SPECI KOQT 011131Z 0000KT 10SM BKN008 BKN065 22/21 A3000 RMK AO2 T02220211
01	0650	MET09009/01/20 06:50:02 SPECI KOQT 011150Z 0000KT 10SM SCT008 BKN037 OVC050 23/21 A3001 RMK AO2
01	0653	MET12909/01/20 06:53:02 METAR KOQT 011153Z 0000KT 10SM SCT008 BKN037 OVC048 23/21 A3002 RMK AO2 SLP147 T02280211 10233 20222 51017 RTX
01	0719	MET10009/01/20 07:19:02 SPECI KOQT 011219Z 0000KT 10SM FEW012 BKN021 OVC036 23/22 A3003 RMK AO2 T02280217
01	0744	MET11209/01/20 07:44:02 SPECI KOQT 011244Z 0000KT 10SM BKN008 BKN021 BKN037 23/22 A3003 RMK AO2 CIG 007V011 T02330217
01	0753	MET10509/01/20 07:53:02 METAR KOQT 011253Z VRB03KT 10SM BKN008 23/22 A3003 RMK AO2 CIG 006V010 SLP153 T02330217
01	0853	MET10509/01/20 08:53:02 METAR KOQT 011353Z 0000KT 10SM OVC007 24/22 A3003 RMK AO2 CIG 006V011 SLP154 T02440222
01	0936	MET08609/01/20 09:36:02 SPECI KOQT 011436Z 0000KT 10SM BKN010 24/22 A3004 RMK AO2 T02440222
01	0953	MET10609/01/20 09:53:02 METAR KOQT 011453Z 0000KT 10SM BKN010 OVC060 26/22 A3004 RMK AO2 SLP155 T02560222 51007
01	1051	MET08809/01/20 10:51:02 SPECI KOQT 011551Z 25004KT 10SM BKN016 OVC047 27/22 A3003 RMK AO2 FIBI
01	1053	MET10009/01/20 10:53:02 METAR KOQT 011553Z 0000KT 10SM BKN016 OVC047 27/22 A3003 RMK AO2 SLP151 T02720222
01	1110	MET09309/01/20 11:10:02 SPECI KOQT 011610Z VRB03KT 10SM SCT016 BKN037 27/22 A3003 RMK AO2 T02720222
01	1151	MET09509/01/20 11:51:02 SPECI KOQT 011651Z 22004KT 10SM FEW021 BKN027 OVC039 27/22 A3002 RMK AO2 FIBI
01	1153	MET11109/01/20 11:53:02 METAR KOQT 011653Z 0000KT 10SM FEW019 BKN027 OVC039 27/22 A3002 RMK AO2 SLP150 T02720222 RTX
01	1210	MET10009/01/20 12:10:02 SPECI KOQT 011710Z 21003KT 10SM FEW018 SCT026 BKN036 28/22 A3002 RMK AO2 T02780222
01	1253	MET12909/01/20 12:53:02 METAR KOQT 011753Z 0000KT 10SM FEW022 SCT028 SCT039 29/22 A3001 RMK AO2 SLP144 T02890222 10289 20228 58010 RTX
01	1328	MET10009/01/20 13:28:02 SPECI KOQT 011828Z VRB04KT 10SM SCT024 BKN029 OVC050 29/22 A3000 RMK AO2 T02890222
01	1340	MET10009/01/20 13:40:02 SPECI KOQT 011840Z VRB04KT 10SM FEW024 SCT029 BKN042 29/22 A3000 RMK AO2 T02890222
01	1353	MET11109/01/20 13:53:02 METAR KOQT 011853Z VRB04KT 10SM SCT026 SCT032 BKN040 30/23 A3000 RMK AO2 SLP140 T03000228 RTX
01	1453	MET09309/01/20 14:53:02 METAR KOQT 011953Z KT 10SM FEW029 30/22 A2997 RMK AO2 SLP132 T03000217
01	1553	MET10509/01/20 15:53:02 METAR KOQT 012053Z VRB03KT 10SM CLR 31/22 A2996 RMK AO2 SLP128 T03060217 56014 RTX FIBI
01	1653	MET09009/01/20 16:53:02 METAR KOQT 012153Z VRB04KT 10SM CLR 30/22 A2997 RMK AO2 SLP133 T03000217
01	1753	MET09009/01/20 17:53:02 METAR KOQT 012253Z VRB03KT 10SM CLR 29/22 A2998 RMK AO2 SLP136 T02940222
01	1853	MET10809/01/20 18:53:02 METAR KOQT 012353Z 0000KT 10SM CLR 28/23 A2999 RMK AO2 SLP138 T02830228 10311 20283 51007
01	1953	MET09009/01/20 19:53:01 METAR KOQT 020053Z 0000KT 10SM CLR 28/23 A3000 RMK AO2 SLP142 T02780233
01	2053	MET10809/01/20 20:53:01 METAR KOQT 020153Z 20003KT 7SM -RA FEW100 26/24 A3001 RMK AO2 RAB13 SLP145 P0001 T02610244
01	2153	MET11409/01/20 21:53:01 METAR KOQT 020253Z VRB04KT 10SM CLR 25/24 A3000 RMK AO2 RAE10 SLP141 P0000 60001 T02500239 50003
01	2200	MET08609/01/20 22:00:01 SPECI KOQT 020300Z 0000KT 10SM FEW008 25/24 A3000 RMK AO2 T02500239
01	2216	MET08609/01/20 22:16:01 SPECI KOQT 020316Z VRB03KT 10SM BKN008 25/24 A3000 RMK AO2 T02500239
01	2253	MET09309/01/20 22:53:02 METAR KOQT 020353Z 0000KT 10SM OVC007 25/24 A2999 RMK AO2 SLP139 T02500239
01	2351	MET08109/01/20 23:51:03 SPECI KOQT 020451Z 18003KT 10SM SCT006 24/23 A2998 RMK AO2 FIBI
01	2353	MET10309/01/20 23:53:02 METAR KOQT 020453Z 0000KT 10SM SCT006 24/23 A2998 RMK AO2 SLP134 T02440233 403110222

Local Climatological Data
Hourly Precipitation
September 2020

Generated on 10/07/2020

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																						0.01	T		01	
02																									02	
03														0.17	T	T	0.10								03	
04																				T					04	
05																									05	
06						T	T	T																	06	
07																									07	
08																									08	
09																									09	
10																									10	
11																									11	
12														T	0.31	T									12	
13																	T	T							13	
14																									14	
15																						T			15	
16																									16	
17	T		T	T	0.02	T	0.01	T								T		T							17	
18																									18	
19																									19	
20					T																				20	
21																									21	
22																									22	
23																				T	T		T	T	T	23
24	0.02s	0.02	0.03	0.03	0.06	0.03	0.01	0.02	0.04	T	0.02	0.01	0.03	0.02	0.03	0.10	0.06	0.02	0.02	0.10	0.18	0.17	0.21	0.26	24	
25	0.16	0.16	0.01	0.05	0.03	0.03	0.04	0.06	0.06	0.06	0.04	0.01	T	T											25	
26																										26
27												0.03	T												27	
28			0.01																T	0.39s	0.27	0.02	0.13	0.05	T	28
29	0.01	T																								29
30		T		T		T																				30

Maximum Short Duration Precipitation

Time Period (Minutes)	5	10	15	20	30	45	60	80	100	120	150	180
Precipitation (inches)	0.15	0.21	0.23	0.25	0.28	0.30	0.39	0.46	0.51	0.66	0.67	0.71
Ending Date Time (yyyy-mm-dd hh:mi)	2020-09-12 14:10	2020-09-12 14:15	2020-09-12 14:19	2020-09-12 14:25	2020-09-12 14:34	2020-09-12 14:49	2020-09-28 18:59	2020-09-28 19:17	2020-09-28 19:49	2020-09-28 19:55	2020-09-28 20:29	2020-09-25 01:35

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
 \$ = Suspect
 * = Erroneous
 blank = No precipitation observed
 M = Missing