

Local Climatological Data Daily Summary August 2021

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

Generated on 09/09/2021

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	87	68	78	-0.5				0	13	0544	1942	RA BR HZ	0.17			29.00		1.8	15	310	9	310
02	86	63	75	-3.5				0	10	0545	1941	BR HZ	0.00			29.08		1.5	13	360	8	090
03	85	66	76	-2.5				0	11	0546	1940	RA BR	0.05			29.03		1.4	14	090	8	070
04	82	65	74	-4.5				0	9	0546	1939	RA FG BR	0.32			29.08		0.6	17	170	9	130
05	88	63*	76	-2.5				0	11	0547	1938	FG BR	0.00			29.15		1.2	11	080	7	290
06	88	66	77	-1.4				0	12	0548	1937		0.00			29.17		1.4	11	300	7	300
07	85	69	77	-1.4				0	12	0549	1936	RA	T			29.14		1.0	16	270	10	270
08	88	64	76	-2.4				0	11	0550	1935	FG BR	0.00			29.13		1.2	11	150	7	150
09	91	68	80	1.7				0	15	0550	1934	RA BR	0.06			29.16		1.4	25	290	15	290
10	92	68	80	1.7				0	15	0551	1933	BR	0.00			29.22		1.7	17	280	9	290
11	94	72	83	4.7				0	18	0552	1932		0.00			29.18		2.3	20	250	10	260
12	92	70	81	2.8				0	16	0553	1931		0.00			29.19		1.8	15	270	7	280
13	94	71	83	4.8				0	18	0553	1930		0.00			29.18		2.1	20	290	12	280
14	94*	72	83	4.9				0	18	0554	1928	RA BR	0.52			29.17		0.9	26	140	15	140
15	88	70	79	1.0				0	14	0555	1927	RA BR	0.37			29.14		1.3	30	080	16	100
16	86	71	79	1.0				0	14	0556	1926	RA BR	0.32			29.10		1.2	14	200	7	160
17	72	70	71	-6.9				0	6	0557	1925	RA BR	1.63			29.03		1.4	16	050	7	280
18	88	69	79	1.2				0	14	0557	1924	BR	0.00			29.15		1.5	*		5	099
19	82	72	77	-0.7				0	12	0558	1922	RA	0.01			29.15		1.3	15	180	7	260
20	89	73	81	3.4				0	16	0559	1921	RA BR	0.10			29.02		0.7	13	110	8	090
21	86	69	78	0.5				0	13	0600	1920	RA	0.01			28.97		0.7	14	200	8	140
22	92	72	82	4.6				0	17	0601	1918	RA FG BR	0.95			28.97		1.1	12	360	8	080
23	93	68	81	3.7				0	16	0601	1917	BR	0.00			29.06		1.2	11	090	7	090
24	93	70	82	4.9				0	17	0602	1916	BR	0.00			29.10		1.2	10	010	7	080
25	92	72	82	5.0				0	17	0603	1914	BR	0.00			29.15		1.0	15	310	8	290
26	93	70	82	5.2				0	17	0604	1913	RA BR	0.44			29.18		1.0	38	160	21	140
27	91	70	81	4.4				0	16	0605	1912	RA FG BR	0.00s			29.18		0.0	12	160	8	160
28	91	71	81	4.5				0	16	0605	1910	BR	0.00			29.21			10	070	6	090
29	88	75s	82s	5.7s				0s	17s	0606	1909		0.00					2.3	*		5	160
30	90	69	80	3.9				0	15	0607	1908	RA BR	0.71			29.11		1.6	20	210	8	230
31	76	69	73	-2.9				0	8	0608	1906	RA BR	3.37			28.80		2.0	15	040	7	280
	88.3	69.0	78.7									Monthly Averages Totals	4.08s			29.10	30.03	1.3				
	0.3	1.8	1.1									Departure from Normal (1981-2010)	1.32s									

Degree Days				Number of days with...									
Monthly		Season-to-date		Temperature				Precipitation		Snow		Weather	
Total	Departure	Total	Departure	Max		Min							
Heating	0	0	0	>=90°	<=32°	<=32°	<=0°	>=0.01"	>=0.1"	>=1"	T-Storms	Heavy Fog	
Cooling	425	34	1305	14	0	0	0	1s	1s				

Date of 5-sec to 3-sec wind equipment change		Sea Level Pressure				Greatest...	
2007-03-22		Maximum		Date		24-Hr...	
		30.21		28		Precip	Snowfall
		Minimum		29.55		31	
						Date	
						31-31	

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 August 2021

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 09/09/2021

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	SCT:04 38 BKN:07 50 BKN:07 100	3.00	RA:02 BR:1 RA RA	74	23.3	73	22.8	72	22.2	94	0	000		29.01	3	-0.02	29.92	FM-15	0.06s	29.98
01	0123	7	FEW:02 38 SCT:04 65 BKN:07 110	2.00	RA:02 BR:1 RA RA	73	22.8	72	22.2	72	22.2	96	0	000		29.00				FM-16	0.04	29.97
01	0151	7	BKN:07 38 BKN:07 47 BKN:07 60	5.00	-RA:02 BR:1 RA RA	73	22.8	72	22.2	72	22.2	94	3	VRB		29.00				FM-16	0.09	29.97
01	0153	7	BKN:07 38 BKN:07 47 BKN:07 60	5.00	-RA:02 BR:1 RA RA	73	22.8	72	22.2	71	21.7	94	0	000		29.00			29.91	FM-15	0.08	29.97
01	0253	7	SCT:04 120	4.00	-RA:02 BR:1 RA RA	73	22.8	72	22.2	72	22.2	96	0	000		28.97			29.88	FM-15	0.02	29.94
01	0353	7	SCT:04 26 BKN:07 80	5.00	BR:1	74	23.3	73	22.8	72	22.2	94	0	000		28.97	5	+0.02	29.88	FM-15	0.01	29.94
01	0417	7	BKN:07 27 BKN:07 90	6.00	BR:1	74	23.3	73	22.8	72	22.2	94	3	VRB		28.97				FM-16		29.94
01	0453	7	BKN:07 27	5.00	BR:1	73	22.8	72	22.2	71	21.7	94	0	000		28.96			29.88	FM-15	0.00	29.93
01	0504	7	SCT:04 27 BKN:07 100	5.00	BR:1	73	22.8	72	22.2	72	22.2	96	0	000		28.96				FM-16		29.93
01	0523	7	FEW:02 7 BKN:07 90 OVC:08 110	6.00	BR:1	73	22.8	72	22.2	71	21.7	94	0	000		28.97				FM-16		29.94
01	0540	7	BKN:07 9 BKN:07 55 OVC:08 95	5.00	BR:1	73	22.8	72	22.2	71	21.7	94	3	200		28.97				FM-16		29.94
01	0553	7	BKN:07 8 BKN:07 60 BKN:07 100	7.00		72	22.2	71	21.7	71	21.7	97	3	VRB		28.98			29.89	FM-15	0.00	29.95
01	0610	7	FEW:02 8 BKN:07 36 OVC:08 60	7.00		72	22.2	71	21.7	71	21.7	97	0	000		28.99				FM-16		29.96
01	0627	7	FEW:02 7 BKN:07 16 OVC:08 34	7.00		72	22.2	71	21.7	70	21.1	94	3	VRB		28.99				FM-16		29.96
01	0653	7	OVC:08 16	5.00	BR:1	73	22.8	72	22.2	71	21.7	94	0	000		28.99	3	-0.02	29.91	FM-15	0.00	29.96
01	0753	7	OVC:08 16	9.00		74	23.3	72	22.2	71	21.7	91	0	000		29.01			29.93	FM-15	0.00	29.98
01	0853	6	OVC:08 18	9.00		74	23.3	72	22.2	71	21.7	91				29.01			29.93	FM-15	T	29.98
01	0906	7	BKN:07 10 OVC:08 18	9.00		74	23.3	72	22.2	71	21.7	91	3	VRB		29.01				FM-16		29.98
01	0930	7	SCT:04 10 OVC:08 18	10.00		75	23.9	72	22.2	71	21.7	88	0	000		29.01				FM-16	T	29.98
01	0939	7	FEW:02 9 OVC:08 17	10.00		75	23.9	72	22.2	71	21.7	88	3	VRB		29.01				FM-16	T	29.98
01	0953	7	SCT:04 9 BKN:07 17 OVC:08 43	10.00		77	25.0	74	23.3	72	22.2	85	6	VRB		29.01	1	-0.02	29.93	FM-15	T	29.98
01	1006	7	FEW:02 9 BKN:07 40 OVC:08 70	10.00		78	25.6	73	22.8	71	21.7	79	6	VRB		29.01				FM-16		29.98
01	1053	6	FEW:02 37	10.00		81	27.2	75	23.9	72	22.2	74				29.01			29.93	FM-15	0.00	29.98

01	1133	7	BKN:07 19 BKN:07 25 OVC:08 40	10.00		80	26.7	73	22.8	70	21.1	71	3	VRB		29.01				FM-16		29.98
01	1151	6	SCT:04 20 BKN:07 36 BKN:07 46	10.00		81	27.2	73	22.8	70	21.1	70	3	VRB		29.01				FM-16		29.98
01	1153	7	SCT:04 20 BKN:07 36 BKN:07 46	10.00		82	27.8	73	22.8	69	20.6	65	3	VRB		29.01			29.93	FM-15	0.00	29.98
01	1253	7	BKN:07 36 BKN:07 49	10.00		82	27.8	72	22.2	67	19.4	60	3	VRB		29.01	3	0.00	29.93	FM-15	0.00	29.98
01	1353	7	FEW:02 35 FEW:02 60	10.00		85	29.4	73	22.8	67	19.4	55	0	000		29.00			29.92	FM-15	0.00	29.97
01	1453	6	FEW:02 40 SCT:04 50	10.00		86	30.0	72	22.2	65	18.3	49				29.00			29.91	FM-15	0.00	29.97
01	1553	7	FEW:02 44	10.00		85	29.4	70	21.1	62	16.7	46	6	310		29.00	5	+0.01	29.91	FM-15	0.00	29.97
01	1653	7	CLR:00	10.00		84	28.9	71	21.7	64	17.8	51	6	VRB		28.99			29.91	FM-15	0.00	29.96
01	1753	7	CLR:00	8.00		82	27.8	70	21.1	64	17.8	55	6	VRB		29.00			29.92	FM-15	0.00	29.97
01	1853	7	CLR:00	7.00		79	26.1	67	19.4	60	15.6	52	5	080		29.01	3	-0.01	29.93	FM-15	0.00	29.98
01	1953	7	CLR:00	6.00	HZ:7 FU HZ	76	24.4	68	20.0	63	17.2	64	0	000		29.04			29.96	FM-15	0.00	30.01
01	2053	7	CLR:00	8.00		76	24.4	67	19.4	62	16.7	62	0	000		29.07			29.99	FM-15	0.00	30.04
01	2153	7	CLR:00	8.00		71	21.7	66	18.9	63	17.2	76	0	000		29.08	1	-0.07	30.01	FM-15	0.00	30.05
01	2253	7	CLR:00	7.00		70	21.1	66	18.9	64	17.8	82	0	000		29.08			30.01	FM-15	0.00	30.05
01	2353	7	CLR:00	6.00	BR:1	68	20.0	65	18.3	64	17.8	87	0	000		29.08			30.01	FM-15	0.00	30.05

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Local Climatological Data
Hourly Remarks
August 2021

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 09/09/2021

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

Date	Time (LST)	Remarks
01	0053	MET14208/01/21 00:53:02 METAR KOQT 010553Z 00000KT 3SM RA BR SCT038 BKN050 BKN100 23/22 A2998 RMK AO2 SLP132 P0005 60005 T02330222 10294 20233 53008
01	0123	MET11108/01/21 01:23:02 SPECI KOQT 010623Z 00000KT 2SM RA BR FEW038 SCT065 BKN110 23/22 A2997 RMK AO2 P0004 T02280222
01	0151	MET10208/01/21 01:51:02 SPECI KOQT 010651Z VRB03KT 5SM -RA BR BKN038 BKN047 BKN060 23/22 A2997 RMK AO2 P0009
01	0153	MET11908/01/21 01:53:02 METAR KOQT 010653Z 00000KT 5SM -RA BR BKN038 BKN047 BKN060 23/22 A2997 RMK AO2 SLP129 P0009 T02280217
01	0253	MET10508/01/21 02:53:02 METAR KOQT 010753Z 00000KT 4SM -RA BR SCT120 23/22 A2994 RMK AO2 SLP119 P0001 T02280222
01	0353	MET12608/01/21 03:53:02 METAR KOQT 010853Z 00000KT 5SM BR SCT026 BKN080 23/22 A2994 RMK AO2 RAE40 SLP120 P0002 60012 T02330222 55008
01	0417	MET09508/01/21 04:17:02 SPECI KOQT 010917Z VRB03KT 6SM BR BKN027 BKN090 23/22 A2994 RMK AO2 T02330222
01	0453	MET09508/01/21 04:53:02 METAR KOQT 010953Z 00000KT 5SM BR BKN027 23/22 A2993 RMK AO2 SLP117 T02280217
01	0504	MET09508/01/21 05:04:02 SPECI KOQT 011004Z 00000KT 5SM BR SCT027 BKN100 23/22 A2993 RMK AO2 T02280222
01	0523	MET10208/01/21 05:23:02 SPECI KOQT 011023Z 00000KT 6SM BR FEW007 BKN090 OVC110 23/22 A2994 RMK AO2 T02280217
01	0540	MET11808/01/21 05:40:02 SPECI KOQT 011040Z 20003KT 5SM BR BKN009 BKN055 OVC095 23/22 A2994 RMK AO2 CIG 004V011 T02280217 RTX
01	0553	MET11808/01/21 05:53:02 METAR KOQT 011053Z VRB03KT 7SM BKN008 BKN060 BKN100 22/22 A2995 RMK AO2 CIG 004V010 SLP123 T02220217
01	0610	MET09908/01/21 06:10:02 SPECI KOQT 011110Z 00000KT 7SM FEW008 BKN036 OVC060 22/22 A2996 RMK AO2 T02220217
01	0627	MET09908/01/21 06:27:02 SPECI KOQT 011127Z VRB03KT 7SM FEW007 BKN016 OVC034 22/21 A2996 RMK AO2 T02220211
01	0653	MET12508/01/21 06:53:02 METAR KOQT 011153Z 00000KT 5SM BR OVC016 23/22 A2996 RMK AO2 SLP129 60012 70017 T02280217 10233 20222 53007
01	0753	MET09208/01/21 07:53:02 METAR KOQT 011253Z 00000KT 9SM OVC016 23/22 A2998 RMK AO2 SLP134 T02330217
01	0853	MET10708/01/21 08:53:02 METAR KOQT 011353Z KT 9SM OVC018 23/22 A2998 RMK AO2 RAB42E52 SLP134 P0000 T02330217
01	0906	MET10408/01/21 09:06:02 SPECI KOQT 011406Z VRB03KT 9SM BKN010 OVC018 23/22 A2998 RMK AO2 CIG 008V012 T02330217
01	0930	MET10808/01/21 09:30:02 SPECI KOQT 011430Z 00000KT 10SM SCT010 OVC018 24/22 A2998 RMK AO2 RAB15E24 P0000 T02390217
01	0939	MET10808/01/21 09:39:02 SPECI KOQT 011439Z VRB03KT 10SM FEW009 OVC017 24/22 A2998 RMK AO2 RAB15E24 P0000 T02390217
01	0953	MET13408/01/21 09:53:02 METAR KOQT 011453Z VRB05KT 10SM SCT009 BKN017 OVC043 25/22 A2998 RMK AO2 RAB15E24 SLP137 P0000 60000 T02500222 51007
01	1006	MET10008/01/21 10:06:02 SPECI KOQT 011506Z VRB05KT 10SM FEW009 BKN040 OVC070 26/22 A2998 RMK AO2 T02560217
01	1053	MET09708/01/21 10:53:02 METAR KOQT 011553Z KT 10SM FEW037 27/22 A2998 RMK AO2 SLP134 T02720222 RTX
01	1133	MET10008/01/21 11:33:02 SPECI KOQT 011633Z VRB03KT 10SM BKN019 BKN025 OVC040 27/21 A2998 RMK AO2 T02670211
01	1151	MET09508/01/21 11:51:02 SPECI KOQT 011651Z VRB03KT 10SM SCT020 BKN036 BKN046 27/21 A2998 RMK AO2 FIBI
01	1153	MET10708/01/21 11:53:02 METAR KOQT 011653Z VRB03KT 10SM SCT020 BKN036 BKN046 28/21 A2998 RMK AO2 SLP134 T02780206
01	1253	MET12408/01/21 12:53:02 METAR KOQT 011753Z VRB03KT 10SM BKN036 BKN049 28/19 A2998 RMK AO2 SLP137 60000 T02780194 10283 20228 53001
01	1353	MET10008/01/21 13:53:02 METAR KOQT 011853Z 00000KT 10SM FEW035 FEW060 29/19 A2997 RMK AO2 SLP131 T02940194
01	1453	MET10008/01/21 14:53:02 METAR KOQT 011953Z KT 10SM FEW040 SCT050 30/18 A2997 RMK AO2 SLP129 T03000183
01	1553	MET09908/01/21 15:53:02 METAR KOQT 012053Z 31005KT 10SM FEW044 29/17 A2997 RMK AO2 SLP130 T02940167 55005
01	1653	MET09408/01/21 16:53:02 METAR KOQT 012153Z VRB05KT 10SM CLR 29/18 A2996 RMK AO2 SLP129 T02890178 RTX
01	1753	MET08908/01/21 17:53:02 METAR KOQT 012253Z VRB05KT 8SM CLR 28/18 A2997 RMK AO2 SLP131 T02780178
01	1853	MET11108/01/21 18:53:02 METAR KOQT 012353Z 08004KT 7SM CLR 26/16 A2998 RMK AO2 SLP137 T02610156 10306 20261 53004 RTX
01	1953	MET09208/01/21 19:53:01 METAR KOQT 020053Z 00000KT 6SM HZ CLR 24/17 A3001 RMK AO2 SLP147 T02440172
01	2053	MET08908/01/21 20:53:01 METAR KOQT 020153Z 00000KT 8SM CLR 24/17 A3004 RMK AO2 SLP156 T02440167
01	2153	MET09508/01/21 21:53:01 METAR KOQT 020253Z 00000KT 8SM CLR 22/17 A3005 RMK AO2 SLP163 T02170172 51024
01	2253	MET08908/01/21 22:53:02 METAR KOQT 020353Z 00000KT 7SM CLR 21/18 A3005 RMK AO2 SLP162 T02110178
01	2353	MET10208/01/21 23:53:02 METAR KOQT 020453Z 00000KT 6SM BR CLR 20/18 A3005 RMK AO2 SLP162 T02000178 403060200

Local Climatological Data
Hourly Precipitation
August 2021

Generated on 09/09/2021

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	0.06s	0.08	0.02	0.01					T	T														01		
02																								02		
03					0.04			0.01	T															03		
04														0.03	0.26	T	0.01	0.02	T					04		
05																								05		
06																								06		
07													T	T										07		
08																								08		
09																			0.05	0.01	T			09		
10																								10		
11																								11		
12																								12		
13																								13		
14																		0.05	0.26		T	0.06	0.09	0.06	14	
15	T															T	0.26	T	0.01	T	0.08	0.01	0.01	15		
16	T	T	0.13	0.01	T	0.01	0.03	0.03						T		T	0.03				0.05	0.03		16		
17			T	T	0.02	0.01	0.04	0.04	0.04	0.18	0.10	0.16	0.11	0.16	0.19	0.23	0.07	0.11	0.05	0.12				17		
18																								18		
19		0.01	T						T					T		T	T	T	T					19		
20			T	T	0.10																			20		
21													T	T									T	0.01	21	
22	0.01						0.02		0.22	0.62	0.08													22		
23																								23		
24																								24		
25																								25		
26																		0.41	0.03	T				26		
27							T																	27		
28																								28		
29	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	29		
30	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	0.51	0.08	0.01	0.10	0.01	30
31	T		T	0.02	0.05	0.03	0.08	0.01	0.07	0.10	0.16	0.04	0.14	0.10	0.04	0.12	0.27	0.26	0.38	0.16	0.21	0.71	0.27	0.15	31	

Maximum Short Duration Precipitation

Time Period (Minutes)	5	10	15	20	30	45	60	80	100	120	150	180
Precipitation (inches)	0.20	0.25	0.35	0.41	0.49	0.61	0.73	0.85	0.95	1.03	1.12	1.21
Ending Date Time (yyyy-mm-dd hh:mi)	2021-08-31 21:23	2021-08-31 21:27	2021-08-30 19:38	2021-08-30 19:42	2021-08-30 19:51	2021-08-31 22:01	2021-08-31 21:55	2021-08-31 22:12	2021-08-31 22:35	2021-08-31 22:49	2021-08-31 23:10	2021-08-31 23:43

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