

Local Climatological Data
Daily Summary
March 2021

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

Generated on 04/15/2021

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	68s	39	54s	8.4s				11s	0s	0708	1832	RA BR	1.11			29.08		4.0	25	290	15	290						
02	53	36	45	-0.8				20	0	0706	1833		0.00			29.26		2.3	14	010	9	090						
03	63	31	47	0.9				18	0	0705	1834		0.00			29.10		0.8	11	290	8	280						
04	67	33	50	3.6				15	0	0704	1835		0.00			29.13		1.6	27	310	14	320						
05	53	35	44	-2.7				21	0	0702	1835		0.00			29.21		4.6	22	080	13	070						
06	55	32	44	-3.0				21	0	0701	1836		0.00			29.27		4.1	21	060	13	070						
07	60	27	44	-3.3				21	0	0659	1837		0.00			29.39		1.8	25	030	14	360						
08	66	26*	46	-1.7				19	0	0658	1838		0.00			29.52		0.5	15	190	9	200						
09	69	30	50	2.0				15	0	0657	1839		0.00			29.49		1.9	18	190	10	200						
10	72	35	54	5.7				11	0	0655	1840		0.00			29.39		3.3	26	190	15	200						
11	70	50	60	11.4				5	0	0654	1841		0.00			29.34		4.2	26	200	16	200						
12	74	53	64	15.1				1	0	0652	1842	RA BR	0.16			29.33		2.2	15	270	9	350						
13	61	54	58	8.8				7	0	0651	1843	RA BR	0.02			29.33		2.0	18	070	9	070						
14	66	51	59	9.5				6	0	0650	1843	RA	T			29.23		3.6	16	070	9	060						
15	71	51	61	11.2				4	0	0648	1844	RA	0.04			29.12		4.5	25	180	14	190						
16	58	51	55	4.9				10	0	0647	1845	RA BR	T			29.05		1.6	13	250	8	290						
17	63	55	59	8.6				6	0	0645	1846	RA BR	1.30			29.03		1.4	14	160	8	160						
18	73	46	60	9.3				5	0	0644	1847	RA BR HZ	0.45			28.73		6.2	35	210	17	280						
19	56	45	51	0.0				14	0	0642	1848	RA BR	0.01			29.10		5.0	27	010	14	360						
20	65	35	50	-1.3				15	0	0641	1849		0.00			29.39		3.3	18	080	12	090						
21	68	35	52	0.4				13	0	0640	1849		0.00			29.36		2.4	18	050	10	060						
22	72	40	56	4.1				9	0	0638	1850		0.00			29.21		1.7	14	040	8	090						
23	72	47	60	7.8				5	0	0637	1851		T			29.05		1.9	18	250	12	190						
24	77*	55	66	13.5				0	1	0635	1852		0.00			28.97		2.0	23	280	14	260						
25	65	54	60	7.2				5	0	0634	1853	RA FG BR	1.78			28.95		1.3	16	270	10	080						
26	76	52	64	11.0				1	0	0632	1854	RA BR	0.10			29.03		3.5	19	230	13	180						
27	59	48	54	0.7				11	0	0631	1854	RA FG BR	0.91			29.13		1.9	18	300	10	290						
28	64	45	55	1.4				10	0	0629	1855	RA FG BR	1.24			28.97		6.6	34	260	18	270						
29	64	34	49	-4.9				16	0	0628	1856		0.00			29.26		1.1	14	020	8	150						
30	76	37	57	2.8				8	0	0627	1857		0.00			29.19		3.9	24	180	15	160						
31	67	40	54	-0.4				11	0	0625	1858	RA FG BR	1.34			29.11		2.7	21	010	13	350						
	65.9	42.0	54.0													29.18	30.16	2.9										
	4.5	2.7	3.6																									
	Departure from Normal (1981-2010)											3.40s																
	Degree Days											Number of days with...																
	Monthly				Season-to-date				Temperature				Precipitation			Snow		Weather										
	Total		Departure		Total		Departure		Max		Min																	
Heating	343		-115		3040				>=90°		<=32°		<=32°			<=0°		>=0.01"			>=0.1"		>=1"		T-Storms		Heavy Fog	
Cooling	1		-3		1				0		0		5			0		11s			8s							
	Date of 5-sec to 3-sec wind equipment change							Sea Level Pressure					Greatest...															
	2007-03-22							Maximum		30.63			Date		08		Time		0909		24-Hr...			Snow Depth				
								Minimum		29.54			18		1446		2.05s			Snowfall								
															Date													
															27-28													
	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 March 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 04/15/2021

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	0043	7	FEW:02 29 OVC:08 36	1.75V	+RA:02 BR:1 RA RA	63	17.2	62	16.7	61	16.1	93	3	260		28.89				FM-16	0.08	29.86
01	0051	7	FEW:02 29 OVC:08 36	3.00	RA:02 BR:1 RA RA	63	17.2	61	16.1	59	15.0	88	7	340		28.89				FM-16	0.13	29.86
01	0053	7	OVC:08 34	4.00	-RA:02 BR:1 RA RA	62	16.7	60	15.6	59	15.0	90	7	VRB		28.89	6	+0.01	29.83	FM-15	0.14	29.86
01	0114	7	OVC:08 33	2.00	+RA:02 BR:1 RA RA	59	15.0	57	13.9	55	12.8	87	10	320	23	28.93				FM-16	0.10	29.90
01	0144	7	FEW:02 44 BKN:07 55 OVC:08 70	4.00	RA:02 BR:1 RA RA	57	13.9	55	12.8	54	12.2	90	3	VRB		28.93				FM-16	0.29	29.90
01	0153	7	FEW:02 49 BKN:07 75 OVC:08 100	4.00	RA:02 BR:1 RA RA	56	13.3	55	12.8	54	12.2	93	0	000		28.93			29.88	FM-15	0.35	29.90
01	0253	7	FEW:02 34 BKN:07 65 OVC:08 80	10.00	-RA:02 RA RA	57	13.9	55	12.8	53	11.7	87	3	VRB		28.96			29.91	FM-15	0.11	29.93
01	0353	7	FEW:02 27 BKN:07 60 OVC:08 70	5.00	RA:02 BR:1 RA RA	56	13.3	55	12.8	55	12.8	97	7	180		28.97	1	-0.08	29.92	FM-15	0.11	29.94
01	0425	7	SCT:04 9 BKN:07 65 OVC:08 90	6.00	-RA:02 BR:1 RA RA	56	13.3	55	12.8	55	12.8	97	0	000		28.97				FM-16	0.06	29.94
01	0435	7	BKN:07 7 OVC:08 90	3.00	RA:02 BR:1 RA RA	56	13.3	55	12.8	55	12.8	97	0	000		28.97				FM-16	0.08	29.94
01	0453	7	BKN:07 6 OVC:08 70	7.00	-RA:02 RA RA	56	13.3	55	12.8	55	12.8	97	0	000		28.97			29.92	FM-15	0.09	29.94
01	0553	7	OVC:08 7	10.00	-RA:02 RA RA	56	13.3	55	12.8	55	12.8	97	0	000		28.99			29.93	FM-15	0.07	29.96
01	0653	7	OVC:08 6	3.00	RA:02 BR:1 RA RA	55	12.8	55	12.8	55	12.8	100	0	000		29.02	3	-0.05	29.97	FM-15	0.10	29.99
01	0725	7	SCT:04 6 BKN:07 38 OVC:08 55	4.00	RA:02 BR:1 RA RA	55	12.8	54	12.2	54	12.2	96	3	VRB		29.05				FM-16	0.04	30.02
01	0753	7	FEW:02 6 BKN:07 60 OVC:08 70	5.00	-RA:02 BR:1 RA RA	55	12.8	54	12.2	54	12.2	96	6	VRB		29.03			29.98	FM-15	0.11	30.00
01	0814	7	BKN:07 6 BKN:07 17 OVC:08 75	10.00	-RA:02 RA RA	55	12.8	54	12.2	54	12.2	96	5	VRB		29.04				FM-16	0.01	30.01
01	0853	7	BKN:07 6 BKN:07 15 OVC:08 20	8.00	-RA:02 RA RA	55	12.8	54	12.2	54	12.2	96	6	VRB		29.07			30.02	FM-15	0.01	30.04
01	0912	7	SCT:04 7 SCT:04 13 OVC:08 22	10.00	-RA:02 RA RA	55	12.8	54	12.2	54	12.2	96	5	270		29.07				FM-16	0.02	30.04
01	0934	7	FEW:02 9 BKN:07 14 OVC:08 24	10.00		54	12.2	52	11.1	51	10.6	90	5	340		29.08				FM-16	0.02	30.05
01	0951	6	BKN:07 16 OVC:08 42	10.00		54	12.2	52	11.1	50	10.0	88				29.09				FM-16		30.06
01	0953	7	BKN:07 18 OVC:08 46	10.00		54	12.2	51	10.6	49	9.4	83	5	340		29.08	0	-0.05	30.03	FM-15	0.02	30.05
01	1007	7	SCT:04 18 BKN:07 43	10.00		54	12.2	51	10.6	48	8.9	80	0	000		29.09				FM-16		30.06
01	1053	7	SCT:04 43	10.00		53	11.7	50	10.0	48	8.9	83	6	VRB		29.08			30.04	FM-15	0.00	30.05
01	1153	7	OVC:08 47	10.00		52	11.1	47	8.3	42	5.6	69	8	VRB	17	29.10			30.07	FM-15	0.00	30.08

01	1253	7	CLR:00	10.00		50	10.0	44	6.7	36	2.2	59	7	VRB		29.16	3	-0.09	30.14	FM-15	0.00	30.14
01	1353	7	CLR:00	10.00		50	10.0	42	5.6	33	0.6	52	7	340		29.14			30.12	FM-15	0.00	30.12
01	1453	7	CLR:00	10.00		49	9.4	40	4.4	27	-2.8	43	9	350	23	29.15			30.14	FM-15	0.00	30.13
01	1553	7	CLR:00	10.00		48	8.9	40	4.4	29	-1.7	48	6	360		29.21	3	-0.05	30.19	FM-15	0.00	30.19
01	1653	7	CLR:00	10.00		48	8.9	40	4.4	28	-2.2	46	7	010		29.22			30.21	FM-15	0.00	30.20
01	1753	7	CLR:00	10.00		47	8.3	39	3.9	29	-1.7	50	5	360		29.23			30.21	FM-15	0.00	30.21
01	1853	7	CLR:00	10.00		46	7.8	39	3.9	28	-2.2	50	8	310		29.26	3	-0.04	30.24	FM-15	0.00	30.24
01	1953	7	CLR:00	10.00		45	7.2	38	3.3	29	-1.7	54	0	000		29.26			30.24	FM-15	0.00	30.24
01	2053	7	CLR:00	10.00		43	6.1	38	3.3	32	0.0	65	0	000		29.26			30.25	FM-15	0.00	30.24
01	2153	7	CLR:00	10.00		42	5.6	39	3.9	34	1.1	73	0	000		29.29	3	-0.03	30.28	FM-15	0.00	30.27
01	2253	7	CLR:00	10.00		40	4.4	37	2.8	33	0.6	77	0	000		29.32			30.32	FM-15	0.00	30.30
01	2353	7	CLR:00	10.00		39	3.9	37	2.8	33	0.6	79	0	000		29.33			30.32	FM-15	0.00	30.31

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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
March 2021

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

Generated on 04/15/2021

Date	Time (LST)	Remarks
01	0043	MET13303/01/21 00:43:02 SPECI KOQT 010543Z 26003KT 1 3/4SM +RA BR FEW029 OVC036 17/16 A2986 RMK AO2 VIS 1 1/4V2 1/2 RAB18 P0008 T01720161 \$
01	0051	MET10203/01/21 00:51:02 SPECI KOQT 010551Z 34006KT 3SM RA BR FEW029 OVC036 17/15 A2986 RMK AO2 RAB18 P0013 \$
01	0053	MET13703/01/21 00:53:02 METAR KOQT 010553Z VRB06KT 4SM -RA BR OVC034 17/15 A2986 RMK AO2 RAB18 SLP101 P0014 60014 T01670150 10206 20167 56003 \$
01	0114	MET10303/01/21 01:14:02 SPECI KOQT 010614Z 32009G20KT 2SM +RA BR OVC033 15/13 A2990 RMK AO2 P0010 T01500128 \$
01	0144	MET11303/01/21 01:44:02 SPECI KOQT 010644Z VRB03KT 4SM RA BR FEW044 BKN055 OVC070 14/12 A2990 RMK AO2 P0029 T01390122 \$
01	0153	MET12003/01/21 01:53:02 METAR KOQT 010653Z 00000KT 4SM RA BR FEW049 BKN075 OVC100 13/12 A2990 RMK AO2 SLP118 P0033 T01330122 \$
01	0253	MET11903/01/21 02:53:02 METAR KOQT 010753Z VRB03KT 10SM -RA FEW034 BKN065 OVC080 14/12 A2993 RMK AO2 SLP127 P0013 T01390117 \$
01	0353	MET13203/01/21 03:53:02 METAR KOQT 010853Z 18006KT 5SM RA BR FEW027 BKN060 OVC070 13/13 A2994 RMK AO2 SLP131 P0009 60055 T01330128 51027 \$
01	0425	MET11403/01/21 04:25:02 SPECI KOQT 010925Z 00000KT 6SM -RA BR SCT009 BKN065 OVC090 13/13 A2994 RMK AO2 P0006 T01330128 \$
01	0435	MET10603/01/21 04:35:02 SPECI KOQT 010935Z 00000KT 3SM RA BR BKN007 OVC090 13/13 A2994 RMK AO2 P0008 T01330128 \$
01	0453	MET11103/01/21 04:53:02 METAR KOQT 010953Z 00000KT 7SM -RA BKN006 OVC070 13/13 A2994 RMK AO2 SLP131 P0010 T01330128 \$
01	0553	MET10503/01/21 05:53:02 METAR KOQT 011053Z 00000KT 10SM -RA OVC007 13/13 A2996 RMK AO2 SLP137 P0008 T01330128 \$
01	0653	MET13603/01/21 06:53:02 METAR KOQT 011153Z 00000KT 3SM RA BR OVC006 13/13 A2999 RMK AO2 SLP149 P0009 60082 70096 T01280128 10167 20128 53017 \$
01	0725	MET11303/01/21 07:25:02 SPECI KOQT 011225Z VRB03KT 4SM RA BR SCT006 BKN038 OVC055 13/12 A3002 RMK AO2 P0004 T01280122 \$
01	0753	MET11903/01/21 07:53:02 METAR KOQT 011253Z VRB05KT 5SM -RA BR FEW006 BKN060 OVC070 13/12 A3000 RMK AO2 SLP153 P0012 T01280122
01	0814	MET11003/01/21 08:14:02 SPECI KOQT 011314Z VRB04KT 10SM -RA BKN006 BKN017 OVC075 13/12 A3001 RMK AO2 P0001 T01280122
01	0853	MET11603/01/21 08:53:02 METAR KOQT 011353Z VRB05KT 8SM -RA BKN006 BKN015 OVC020 13/12 A3004 RMK AO2 SLP167 P0001 T01280122
01	0912	MET11003/01/21 09:12:02 SPECI KOQT 011412Z 27004KT 10SM -RA SCT007 SCT013 OVC022 13/12 A3004 RMK AO2 P0002 T01280122
01	0934	MET11203/01/21 09:34:02 SPECI KOQT 011434Z 34004KT 10SM FEW009 BKN014 OVC024 12/11 A3005 RMK AO2 RAE13 P0002 T01220106
01	0951	MET09503/01/21 09:51:02 SPECI KOQT 011451Z KT 10SM BKN016 OVC042 12/10 A3006 RMK AO2 RAE13 P0002
01	0953	MET12403/01/21 09:53:02 METAR KOQT 011453Z 34004KT 10SM BKN018 OVC046 12/09 A3005 RMK AO2 RAE13 SLP171 P0002 60015 T01220094 50017
01	1007	MET09303/01/21 10:07:02 SPECI KOQT 011507Z 00000KT 10SM SCT018 BKN043 12/09 A3006 RMK AO2 T01220089
01	1053	MET09303/01/21 10:53:02 METAR KOQT 011553Z VRB05KT 10SM SCT043 12/09 A3005 RMK AO2 SLP172 T01170089
01	1153	MET09603/01/21 11:53:02 METAR KOQT 011653Z 36007G15KT 10SM OVC047 11/06 A3008 RMK AO2 SLP183 T01110056
01	1253	MET11403/01/21 12:53:02 METAR KOQT 011753Z VRB06KT 10SM CLR 10/02 A3014 RMK AO2 SLP206 60015 T01000022 10133 20100 53030
01	1353	MET09003/01/21 13:53:02 METAR KOQT 011853Z 34006KT 10SM CLR 10/01 A3012 RMK AO2 SLP201 T01000006
01	1453	MET09403/01/21 14:53:02 METAR KOQT 011953Z 35008G20KT 10SM CLR 09/M03 A3013 RMK AO2 SLP205 T00941028
01	1553	MET09703/01/21 15:53:02 METAR KOQT 012053Z 36005KT 10SM CLR 09/M02 A3019 RMK AO2 SLP225 T00891017 53016
01	1653	MET09103/01/21 16:53:02 METAR KOQT 012153Z 01006KT 10SM CLR 09/M02 A3020 RMK AO2 SLP229 T00891022
01	1753	MET09103/01/21 17:53:02 METAR KOQT 012253Z 36004KT 10SM CLR 08/M02 A3021 RMK AO2 SLP231 T00831017
01	1853	MET10903/01/21 18:53:02 METAR KOQT 012353Z 31007KT 10SM CLR 08/M02 A3024 RMK AO2 SLP242 T00781022 10100 20078 53015
01	1953	MET09103/01/21 19:53:01 METAR KOQT 020053Z 00000KT 10SM CLR 07/M02 A3024 RMK AO2 SLP242 T00721017
01	2053	MET09003/01/21 20:53:01 METAR KOQT 020153Z 00000KT 10SM CLR 06/00 A3024 RMK AO2 SLP245 T00610000
01	2153	MET09603/01/21 21:53:01 METAR KOQT 020253Z 00000KT 10SM CLR 06/01 A3027 RMK AO2 SLP255 T00560011 53010
01	2253	MET09003/01/21 22:53:01 METAR KOQT 020353Z 00000KT 10SM CLR 04/01 A3030 RMK AO2 SLP267 T00440006
01	2353	MET10003/01/21 23:53:01 METAR KOQT 020453Z 00000KT 10SM CLR 04/01 A3031 RMK AO2 SLP268 T00390006 402000039

Local Climatological Data
Hourly Precipitation
March 2021

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

Generated on 04/15/2021

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

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	0.14	0.35	0.11	0.11	0.09	0.07	0.10	0.11	0.01	0.02															01	
02																									02	
03																									03	
04																									04	
05																									05	
06																									06	
07																									07	
08																									08	
09																									09	
10																									10	
11																									11	
12															T	0.01	0.04	0.04	T	T	0.02	0.03	0.01	0.01	T	12
13	T	0.01			T				T	T	T				T	0.01	T								13	
14	T	T																							14	
15																T	T	0.01	0.01	0.01	0.01	T	T		15	
16								T																	16	
17													0.05s	0.08	0.01	T	0.09	0.03	0.04	0.10	0.06	0.22	0.36	0.26	17	
18	0.28	0.03	T	T	0.01	0.03	0.04	0.05							T		T	T					T	T	0.01	18
19	T	T	T				T	0.01	T																	19
20																										20
21																										21
22																										22
23																			T							23
24																										24
25								0.07	0.09	0.10	0.42	0.16	0.13	0.03	T		0.22	0.39	0.02				0.02	0.03	0.10	25
26	0.10																									26
27								T	0.13	T	0.42	0.03	0.01	T	0.03	T	0.01	0.04	0.01		T	0.06s	0.04	0.13	27	
28				0.01	0.25	0.70	0.13	0.05	0.06	0.04																28
29																										29
30																										30
31		0.01	T	0.14s	0.43	0.25	0.06	0.11	0.09	T	0.05	0.03	0.03	T		T	T		0.05s	0.08	0.01			T	31	

Maximum Short Duration Precipitation

Time Period (Minutes)	5	10	15	20	30	45	60	80	100	120	150	180
Precipitation (inches)	0.22	0.34	0.40	0.45	0.58	0.76	0.84	0.93	1.00	1.05	1.08	1.11
Ending Date Time (yyyy-mm-dd hh:mi)	2021-03-28 05:10	2021-03-28 05:12	2021-03-28 05:17	2021-03-28 05:22	2021-03-28 05:16	2021-03-28 05:29	2021-03-28 05:41	2021-03-28 06:04	2021-03-28 06:22	2021-03-28 06:29	2021-03-28 07:01	2021-03-28 07:28

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