

Local Climatological Data
Daily Summary
December 2021

Generated on 01/10/2022

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		Weather Type	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	58	33	46	2.0				19	0	0729	1723		0.00			29.15		0.4	9	290	6	270	
02	71	42	57	13.3				8	0	0730	1723		0.00			29.08		2.4	16	210	9	200	
03	73*	41	57	13.6				8	0	0731	1723	HZ	0.00			29.08		1.6	14	200	9	260	
04	67	45	56	12.9				9	0	0732	1723		0.00			29.13		0.9	10	250	7	160	
05	57	49	53	10.1				12	0	0732	1722	RA BR	0.07			29.14		0.7	9	270	6	250	
06	62	34	48	5.4				17	0	0733	1722	RA BR	0.50			29.02		4.8	34	200	16	210	
07	45	31	38	-4.3				27	0	0734	1722		0.00			29.20		2.5	16	060	9	070	
08	53	33	43	0.9				22	0	0735	1723	RA BR	0.01			29.05		1.1	11	140	7	130	
09	52	29	41	-0.8				24	0	0736	1723	RA BR	0.00s			29.13		1.3	14	260	7	260	
10	52	48	50	8.4				15	0	0737	1723	RA BR	0.20			29.07		1.1	12	220	7	250	
11	70	40	55	13.7				10	0	0737	1723	RA FG BR	0.98			28.94		6.0	36	200	20	280	
12	49	30	40	-1.1				25	0	0738	1723		0.00			29.33		2.3	19	350	12	340	
13	55	27	41	0.1				24	0	0739	1723	FZFG BR FG	0.00			29.41		0.7	11	150	7	200	
14	62	30	46	5.3				19	0	0739	1724	FG FZFG BR	0.00s			29.46		1.0	12	080	9	070	
15	63	32	48	7.6				17	0	0740	1724		0.00			29.39		1.5	15	260	9	250	
16	69	51	60	19.8				5	0	0741	1724	RA BR	0.34			29.22		4.2	25	200	14	200	
17	65	56	61	20.9				4	0	0741	1725	RA FG BR	0.20			29.18		1.3	14	220	8	210	
18	66	52	59	19.1				6	0	0742	1725	RA FG BR	0.85			29.05		1.8	19s	290s	10	290	
19	52	36	44	4.3				21	0	0743	1725	RA	0.03			29.20		4.2	24	010	13	360	
20	47	32	40	0.5				25	0	0743	1726		0.00			29.27		1.9	17	050	8	070	
21	50	34	42	2.6				23	0	0744	1726		0.00			29.05		0.5	10	070	7	060	
22	49	30	40	0.8				25	0	0744	1727	SN	0.00s			29.02		1.4	18	350	10	010	
23	54	25*	40	0.9				25	0	0745	1727		0.00			29.21		1.2	14	280	8	270	
24	62	38	50	11.1				15	0	0745	1728		0.00			29.09		2.7	21	200	10	210	
25	69	59	64	25.2				1	0	0746	1729		0.00			28.89		5.4	29	220	14	190	
26	72	51	62	23.4				3	0	0746	1729	RA FG BR	0.00s			29.03		0.7	10	170	7	160	
27	66	50	58	19.5				7	0	0746	1730	RA BR	0.02			28.95		3.1	19	220	12	200	
28	72	58	65	26.6				0	0	0747	1730	RA BR	0.40			28.87		4.4	36	190	21	210	
29	65	55	60	21.7				5	0	0747	1731	RA BR	1.20			28.87		3.1	24	290	14	310	
30	67	51	59	20.8				6	0	0747	1732	BR	0.00			28.93		1.4	12	230	8	200	
Monthly Averages Totals																							
Departure from Normal (1981-2010)																							
Degree Days										Number of days with...													
Monthly					Season-to-date					Temperature				Precipitation		Snow		Weather					
Total		Departure			Total		Departure			Max		Min		>=0.01"		>=0.1"		>=1"		T-Storms		Heavy Fog	
Heating										>=90°		<=32°		<=32°		<=0°							
Cooling																							
Date of 5-sec to 3-sec wind equipment change								Sea Level Pressure						Greatest...									
N/A								Maximum			Date			Time			24-Hr...				Snow Depth		
								Minimum									Precip		Snowfall				
Date																							
Station Augmentation																							
Name: N/A Lat: N/A Lon: N/A Elevation: N/A Distance: N/A Elements: N/A Equipment: N/A																							

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

Local Climatological Data Hourly Observations December 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 01/10/2022

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

Date	Time (LST)	Station Type	Sky Conditions	Visibility	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		36	2.2	34	1.1	32	0.0	86	0	000		29.19	8	+0.01	30.19	FM-15	0.00	30.17
01	0153	7	CLR:00	10.00		35	1.7	34	1.1	32	0.0	89	0	000		29.19			30.19	FM-15	0.00	30.17
01	0253	7	CLR:00	10.00		34	1.1	33	0.6	31	-0.6	89	0	000		29.20			30.19	FM-15	0.00	30.18
01	0353	7	CLR:00	10.00		33	0.6	32	0.0	31	-0.6	92	0	000		29.19	0	0.00	30.19	FM-15	0.00	30.17
01	0453	7	CLR:00	10.00		34	1.1	33	0.6	31	-0.6	89	0	000		29.21			30.21	FM-15	0.00	30.19
01	0553	7	CLR:00	10.00		33	0.6	32	0.0	31	-0.6	92	0	000		29.20			30.21	FM-15	0.00	30.18
01	0653	7	CLR:00	10.00		34	1.1	33	0.6	32	0.0	92	0	000		29.20	1	-0.01	30.21	FM-15	0.00	30.18
01	0753	7	CLR:00	10.00		35	1.7	34	1.1	33	0.6	93	0	000		29.22			30.23	FM-15	0.00	30.20
01	0853	7	CLR:00	10.00		37	2.8	36	2.2	34	1.1	89	0	000		29.23			30.24	FM-15	0.00	30.21
01	0953	7	CLR:00	10.00		41	5.0	39	3.9	37	2.8	86	0	000		29.24	1	-0.03	30.24	FM-15	0.00	30.22
01	1053	7	CLR:00	10.00		47	8.3	43	6.1	38	3.3	71	0	000		29.21			30.21	FM-15	0.00	30.19
01	1153	7	CLR:00	10.00		51	10.6	45	7.2	39	3.9	64	3	270		29.17			30.17	FM-15	0.00	30.15
01	1253	7	CLR:00	10.00		53	11.7	47	8.3	40	4.4	61	3	VRB		29.14	7	+0.09	30.14	FM-15	0.00	30.12
01	1353	7	CLR:00	10.00		57	13.9	49	9.4	41	5.0	55	0	000		29.12			30.10	FM-15	0.00	30.09
01	1453	7	FEW:02 100	10.00		58	14.4	50	10.0	42	5.6	56	0	000		29.10			30.08	FM-15	0.00	30.07
01	1553	7	BKN:07 110	10.00		57	13.9	49	9.4	42	5.6	58	0	000		29.09	6	+0.06	30.07	FM-15	0.00	30.06
01	1653	7	CLR:00	10.00		56	13.3	49	9.4	43	6.1	62	0	000		29.09			30.07	FM-15	0.00	30.06
01	1753	7	CLR:00	10.00		52	11.1	48	8.9	43	6.1	72	0	000		29.09			30.08	FM-15	0.00	30.06
01	1853	7	CLR:00	9.00		50	10.0	47	8.3	43	6.1	77	0	000		29.08	8	+0.01	30.07	FM-15	0.00	30.05
01	1953	7	BKN:07 90 BKN:07 110	10.00		48	8.9	45	7.2	42	5.6	80	0	000		29.10			30.09	FM-15	0.00	30.07
01	2053	7	BKN:07 90 OVC:08 110	9.00		48	8.9	46	7.8	43	6.1	83	0	000		29.10			30.10	FM-15	0.00	30.08
01	2153	7	OVC:08 55	10.00		51	10.6	47	8.3	43	6.1	74	0	000		29.13	1	-0.04	30.11	FM-15	0.00	30.10
01	2253	7	BKN:07 55 OVC:08 75	10.00		51	10.6	48	8.9	44	6.7	77	3	230		29.12			30.10	FM-15	0.00	30.09
01	2353	7	BKN:07 45 OVC:08 60	10.00		52	11.1	48	8.9	43	6.1	72	0	000		29.10			30.09	FM-15	0.00	30.08

U.S. Department of Commerce
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Local Climatological Data
Hourly Remarks
December 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 01/10/2022

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

Date	Time (LST)	Remarks
01	0053	MET10812/01/21 00:53:02 METAR KOQT 010553Z 00000KT 10SM CLR 02/00 A3017 RMK AO2 SLP222 T00220000 10083 20022 58002
01	0153	MET09012/01/21 01:53:02 METAR KOQT 010653Z 00000KT 10SM CLR 02/00 A3017 RMK AO2 SLP222 T00170000
01	0253	MET09112/01/21 02:53:02 METAR KOQT 010753Z 00000KT 10SM CLR 01/M01 A3018 RMK AO2 SLP224 T00111006
01	0353	MET09712/01/21 03:53:02 METAR KOQT 010853Z 00000KT 10SM CLR 01/M01 A3017 RMK AO2 SLP224 T00061006 50001
01	0453	MET09112/01/21 04:53:02 METAR KOQT 010953Z 00000KT 10SM CLR 01/M01 A3019 RMK AO2 SLP229 T00111006
01	0553	MET09112/01/21 05:53:02 METAR KOQT 011053Z 00000KT 10SM CLR 01/M01 A3018 RMK AO2 SLP229 T00061006
01	0653	MET10812/01/21 06:53:02 METAR KOQT 011153Z 00000KT 10SM CLR 01/00 A3018 RMK AO2 SLP231 T00110000 10022 20006 51003
01	0753	MET09012/01/21 07:53:02 METAR KOQT 011253Z 00000KT 10SM CLR 02/01 A3020 RMK AO2 SLP238 T00170006
01	0853	MET09012/01/21 08:53:02 METAR KOQT 011353Z 00000KT 10SM CLR 03/01 A3021 RMK AO2 SLP241 T00280011
01	0953	MET09612/01/21 09:53:02 METAR KOQT 011453Z 00000KT 10SM CLR 05/03 A3022 RMK AO2 SLP241 T00500028 51010
01	1053	MET09012/01/21 10:53:02 METAR KOQT 011553Z 00000KT 10SM CLR 08/03 A3019 RMK AO2 SLP231 T00830033
01	1153	MET09012/01/21 11:53:02 METAR KOQT 011653Z 27003KT 10SM CLR 11/04 A3015 RMK AO2 SLP216 T01060039
01	1253	MET10812/01/21 12:53:02 METAR KOQT 011753Z VRB03KT 10SM CLR 12/04 A3012 RMK AO2 SLP206 T01170044 10117 20006 57031
01	1353	MET09012/01/21 13:53:02 METAR KOQT 011853Z 00000KT 10SM CLR 14/05 A3009 RMK AO2 SLP193 T01390050
01	1453	MET09312/01/21 14:53:02 METAR KOQT 011953Z 00000KT 10SM FEW100 14/06 A3007 RMK AO2 SLP186 T01440056
01	1553	MET09912/01/21 15:53:02 METAR KOQT 012053Z 00000KT 10SM BKN110 14/06 A3006 RMK AO2 SLP184 T01390056 56021
01	1653	MET09012/01/21 16:53:02 METAR KOQT 012153Z 00000KT 10SM CLR 13/06 A3006 RMK AO2 SLP184 T01330061
01	1753	MET09012/01/21 17:53:02 METAR KOQT 012253Z 00000KT 10SM CLR 11/06 A3006 RMK AO2 SLP186 T01110061
01	1853	MET10712/01/21 18:53:02 METAR KOQT 012353Z 00000KT 9SM CLR 10/06 A3005 RMK AO2 SLP184 T01000061 10144 20094 58002
01	1953	MET10012/01/21 19:53:01 METAR KOQT 020053Z 00000KT 10SM BKN090 BKN110 09/06 A3007 RMK AO2 SLP191 T00890056
01	2053	MET09912/01/21 20:53:01 METAR KOQT 020153Z 00000KT 9SM BKN090 OVC110 09/06 A3008 RMK AO2 SLP193 T00890061
01	2153	MET09912/01/21 21:53:01 METAR KOQT 020253Z 00000KT 10SM OVC055 11/06 A3010 RMK AO2 SLP197 T01060061 51015
01	2253	MET10012/01/21 22:53:01 METAR KOQT 020353Z 23003KT 10SM BKN055 OVC075 11/07 A3009 RMK AO2 SLP192 T01060067
01	2353	MET11012/01/21 23:53:02 METAR KOQT 020453Z 00000KT 10SM BKN045 OVC060 11/06 A3008 RMK AO2 SLP188 T01110061 401440006

Local Climatological Data
Hourly Precipitation
December 2021

Generated on 01/10/2022

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																										03		
04																										04		
05											T	0.03	0.04													05		
06		T	T	T	T	0.01			0.05	0.12	0.28	0.03	0.01													06		
07																											07	
08						0.01			T																		08	
09																									T		09	
10		T	0.01					T	0.02	0.01	T	T	0.01	0.01			T	T	0.07	T	T	0.02s	0.03	0.02		10		
11	T	T	0.01			T	T			0.02s	0.61	0.05	0.09	0.18	0.01	0.01											11	
12																												12
13																												13
14					T																							14
15																												15
16																					0.01	0.08	0.19	0.06	T			16
17			T	T	0.11	0.05	0.03	0.01			T	T																17
18						0.05	0.27	0.07	0.08	0.21	0.05					0.07	0.05											18
19		T	T	0.01	0.01	0.01	T																					19
20																												20
21																												21
22						T	T																					22
23																												23
24																												24
25																												25
26							T	T																				26
27													T							T	0.01	0.01	T					27
28			T																T		0.03	0.01	0.02	0.16	0.18			28
29	0.03	T		T	T	0.04	0.02	0.01	T	0.01	0.05	0.01		T	T	T	0.02	0.01	0.01	T	0.27	0.62	0.10	T			29	
30																									M			30
31	M	M	M	M	M	M	M	M	M	M	T	T	M	M	M	T	T	M	M	M	M	M	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)												
Ending Date Time (yyyy-mm-dd hh:mi)												

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