

**Local Climatological Data**  
**Daily Summary**  
**October 2021**

Generated on 10/26/2021

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	82	61	72	6.7				0	7	0632	1821		0.00			29.23		0.6	11	090	7	080	
02	80	62	71	6.1				0	6	0633	1819	FG BR	0.00			29.21		0.8	15	260	9	270	
03	70	67	69	4.4				0	4	0633	1818	RA FG BR	1.13			29.08		1.0	16	190	6	180	
04	81	65	73	8.8				0	8	0634	1817	RA BR	0.07			29.02		0.4	11	300	7	290	
05	72	64	68	4.2				0	3	0635	1815	RA FG BR	0.03			29.11		0.3	7	080	5	080	
06	80	67	74	10.6				0	9	0636	1814	RA BR	0.15			29.18		1.6	16	080	10	090	
07	81	63	72	9.0				0	7	0637	1812	RA FG BR	1.40			29.18		1.1	26	140	14	130	
08	78	64	71	8.3				0	6	0638	1811	RA FG BR	0.01			29.11		0.1	9	100	6	140	
09	78	61	70	7.7				0	5	0638	1810	FG BR	0.00			29.10		0.8	9	110	6	130	
10	80	62	71	9.0				0	6	0639	1808	FG BR	0.00			29.07		0.6	8	100	5	040	
11	80	61	71	9.4				0	6	0640	1807	FG BR	0.00			29.03		1.5	14	250	9	260	
12	69	63	66	4.8				0	1	0641	1805	RA BR	T			29.11		0.8	11	230	6	260	
13	78	61	70	9.1				0	5	0642	1804	FG BR	0.00			29.11		0.7	10	290	6	310	
14	82	63	73	12.5				0	8	0643	1803	FG BR	0.00			29.06		0.3	9	150	6	100	
15	83*	65	74	13.8				0	9	0644	1801	RA FG BR	1.54			29.00		1.9	21	290	12	300	
16	70	47	59	-0.8				6	0	0644	1800	RA BR	0.41			29.03		3.5	22	330	13	330	
17	68	41	55	-4.5				10	0	0645	1759		0.00s			29.24		0.8	20	310	10	330	
18	71	41*	56	-3.1				9	0	0646	1757	BR	0.00			29.23		0.4	9	230	5	250	
19	71	46	59	0.2				6	0	0647	1756	FG BR	0.00s			29.26		0.4	8	090	6	150	
20	73	45	59	0.5				6	0	0648	1755	RA FG BR	0.00s			29.27		0.6	11	280	7	270	
21	74	56	65	6.9				0	0	0649	1754	RA FG BR	0.62			29.13		1.0	16	200	7	180	
22	62	51	57	-0.8				8	0	0650	1753	FG BR	0.00			29.08		1.7	14	250	8	260	
23										0651	1751	FG BR											
24										0652	1750	FG BR											
<b>Monthly Averages   Totals</b>																							
<b>Departure from Normal (1981-2010)</b>																							
<b>Degree Days</b>												<b>Number of days with...</b>											
<b>Monthly</b>				<b>Season-to-date</b>				<b>Temperature</b>				<b>Precipitation</b>		<b>Snow</b>		<b>Weather</b>							
<b>Total</b>		<b>Departure</b>		<b>Total</b>		<b>Departure</b>		<b>Max</b>		<b>Min</b>		<b>&gt;=0.01"</b>		<b>&gt;=0.1"</b>		<b>&gt;=1"</b>		<b>T-Storms</b>		<b>Heavy Fog</b>			
<b>Heating</b>								<b>&gt;=90°</b>		<b>&lt;=32°</b>		<b>&lt;=32°</b>		<b>&lt;=0°</b>									
<b>Cooling</b>																							
<b>Date of 5-sec to 3-sec wind equipment change</b>								<b>Sea Level Pressure</b>								<b>Greatest...</b>							
N/A								<b>Maximum</b>				<b>Date</b>				<b>Time</b>				<b>24-Hr...</b>			<b>Snow Depth</b>
								<b>Minimum</b>												<b>Precip</b>		<b>Snowfall</b>	
<b>Station Augmentation</b>																							
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  
 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 Observations October 2021

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

Generated on 10/26/2021

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)	(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		66	18.9	64	17.8	63	17.2	90	0	000		29.21	0	0.00	30.15	FM-15	0.00	30.19
01	0153	7	CLR:00	10.00		65	18.3	64	17.8	63	17.2	93	0	000		29.21			30.15	FM-15	0.00	30.19
01	0253	7	CLR:00	10.00		64	17.8	63	17.2	62	16.7	93	0	000		29.20			30.14	FM-15	0.00	30.18
01	0353	7	CLR:00	10.00		64	17.8	62	16.7	61	16.1	90	0	000		29.21	3	-0.01	30.15	FM-15	0.00	30.19
01	0453	7	CLR:00	10.00		63	17.2	61	16.1	59	15.0	87	0	000		29.22			30.16	FM-15	0.00	30.20
01	0553	7	CLR:00	10.00		62	16.7	60	15.6	59	15.0	90	0	000		29.23			30.18	FM-15	0.00	30.21
01	0653	7	CLR:00	10.00		61	16.1	60	15.6	59	15.0	93	0	000		29.25	3	-0.03	30.20	FM-15	0.00	30.23
01	0753	7	CLR:00	10.00		63	17.2	61	16.1	59	15.0	87	0	000		29.26			30.21	FM-15	0.00	30.24
01	0853	7	CLR:00	10.00		67	19.4	62	16.7	58	14.4	73	3	VRB		29.27			30.22	FM-15	0.00	30.25
01	0953	7	CLR:00	10.00		69	20.6	62	16.7	57	13.9	66	3	VRB		29.27	1	-0.03	30.22	FM-15	0.00	30.25
01	1053	7	CLR:00	10.00		71	21.7	63	17.2	58	14.4	63	0	000		29.27			30.22	FM-15	0.00	30.25
01	1153	7	CLR:00	10.00		72	22.2	64	17.8	58	14.4	61	3	070		29.27			30.22	FM-15	0.00	30.25
01	1253	7	CLR:00	10.00		75	23.9	66	18.9	60	15.6	60	0	000		29.25	8	+0.02	30.20	FM-15	0.00	30.23
01	1353	7	CLR:00	10.00		77	25.0	67	19.4	61	16.1	58	0	000		29.23			30.18	FM-15	0.00	30.21
01	1453	7	CLR:00	10.00		80	26.7	69	20.6	63	17.2	56	0	000		29.22			30.16	FM-15	0.00	30.20
01	1553	7	CLR:00	10.00		81	27.2	70	21.1	65	18.3	58	3	VRB		29.21	6	+0.05	30.14	FM-15	0.00	30.19
01	1653	7	CLR:00	10.00		78	25.6	70	21.1	65	18.3	64	0	000		29.20			30.15	FM-15	0.00	30.18
01	1753	7	CLR:00	10.00		76	24.4	70	21.1	67	19.4	74	0	000		29.21			30.16	FM-15	0.00	30.19
01	1853	7	CLR:00	10.00		71	21.7	68	20.0	67	19.4	87	0	000		29.21	3	-0.01	30.17	FM-15	0.00	30.19
01	1953	7	CLR:00	10.00		69	20.6	67	19.4	66	18.9	90	0	000		29.23			30.19	FM-15	0.00	30.21
01	2053	7	CLR:00	10.00		68	20.0	67	19.4	66	18.9	93	0	000		29.24			30.19	FM-15	0.00	30.22
01	2153	7	CLR:00	9.00		68	20.0	66	18.9	65	18.3	90	0	000		29.24	1	-0.03	30.19	FM-15	0.00	30.22
01	2253	7	CLR:00	10.00		68	20.0	66	18.9	65	18.3	90	0	000		29.25			30.19	FM-15	0.00	30.23
01	2353	7	CLR:00	7.00		66	18.9	65	18.3	64	17.8	93	0	000		29.24			30.19	FM-15	0.00	30.22

U.S. Department of Commerce  
 National Oceanic & Atmospheric Administration  
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**Local Climatological Data**  
**Hourly Remarks**  
**October 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 10/26/2021

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

Date	Time (LST)	Remarks
01	0053	MET10810/01/21 00:53:02 METAR KOQT 010553Z 00000KT 10SM CLR 19/17 A3019 RMK AO2 SLP209 T01890172 10228 20189 50001
01	0153	MET09010/01/21 01:53:02 METAR KOQT 010653Z 00000KT 10SM CLR 18/17 A3019 RMK AO2 SLP209 T01830172
01	0253	MET09010/01/21 02:53:02 METAR KOQT 010753Z 00000KT 10SM CLR 18/17 A3018 RMK AO2 SLP207 T01780167
01	0353	MET09610/01/21 03:53:02 METAR KOQT 010853Z 00000KT 10SM CLR 18/16 A3019 RMK AO2 SLP211 T01780161 53002
01	0453	MET09010/01/21 04:53:02 METAR KOQT 010953Z 00000KT 10SM CLR 17/15 A3020 RMK AO2 SLP214 T01720150
01	0553	MET09010/01/21 05:53:02 METAR KOQT 011053Z 00000KT 10SM CLR 17/15 A3021 RMK AO2 SLP220 T01670150
01	0653	MET10810/01/21 06:53:02 METAR KOQT 011153Z 00000KT 10SM CLR 16/15 A3023 RMK AO2 SLP227 T01610150 10189 20161 53011
01	0753	MET09010/01/21 07:53:02 METAR KOQT 011253Z 00000KT 10SM CLR 17/15 A3024 RMK AO2 SLP231 T01720150
01	0853	MET09410/01/21 08:53:02 METAR KOQT 011353Z VRB03KT 10SM CLR 19/14 A3025 RMK AO2 SLP234 T01940144 RTX
01	0953	MET09610/01/21 09:53:02 METAR KOQT 011453Z VRB03KT 10SM CLR 21/14 A3025 RMK AO2 SLP235 T02060139 51009
01	1053	MET09010/01/21 10:53:02 METAR KOQT 011553Z 00000KT 10SM CLR 22/14 A3025 RMK AO2 SLP234 T02170144
01	1153	MET09010/01/21 11:53:02 METAR KOQT 011653Z 07003KT 10SM CLR 22/14 A3025 RMK AO2 SLP233 T02220144
01	1253	MET10810/01/21 12:53:02 METAR KOQT 011753Z 00000KT 10SM CLR 24/16 A3023 RMK AO2 SLP226 T02390156 10239 20161 58007
01	1353	MET09010/01/21 13:53:02 METAR KOQT 011853Z 00000KT 10SM CLR 25/16 A3021 RMK AO2 SLP219 T02500161
01	1453	MET09010/01/21 14:53:02 METAR KOQT 011953Z 00000KT 10SM CLR 27/17 A3020 RMK AO2 SLP213 T02670172
01	1553	MET10010/01/21 15:53:02 METAR KOQT 012053Z VRB03KT 10SM CLR 27/18 A3019 RMK AO2 SLP208 T02720183 56016 RTX
01	1653	MET09010/01/21 16:53:02 METAR KOQT 012153Z 00000KT 10SM CLR 26/18 A3018 RMK AO2 SLP209 T02560183
01	1753	MET09010/01/21 17:53:02 METAR KOQT 012253Z 00000KT 10SM CLR 24/19 A3019 RMK AO2 SLP212 T02440194
01	1853	MET10810/01/21 18:53:02 METAR KOQT 012353Z 00000KT 10SM CLR 22/19 A3019 RMK AO2 SLP216 T02170194 10278 20217 53003
01	1953	MET09010/01/21 19:53:01 METAR KOQT 020053Z 00000KT 10SM CLR 21/19 A3021 RMK AO2 SLP222 T02060189
01	2053	MET09010/01/21 20:53:01 METAR KOQT 020153Z 00000KT 10SM CLR 20/19 A3022 RMK AO2 SLP224 T02000189
01	2153	MET09510/01/21 21:53:02 METAR KOQT 020253Z 00000KT 9SM CLR 20/18 A3022 RMK AO2 SLP223 T02000183 51009
01	2253	MET09010/01/21 22:53:02 METAR KOQT 020353Z 00000KT 10SM CLR 20/18 A3023 RMK AO2 SLP224 T02000183
01	2353	MET09910/01/21 23:53:02 METAR KOQT 020453Z 00000KT 7SM CLR 19/18 A3022 RMK AO2 SLP222 T01890178 402780161

### Local Climatological Data Hourly Precipitation October 2021

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

Generated on 10/26/2021

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																								01			
02																									02		
03		T	T	T	0.02	0.11	0.24	0.05	T		T	0.02	0.15	0.16	0.04	0.12	0.21		T		0.01	T		T	03		
04	0.06	0.01	T																						04		
05						0.02	T			T	T		T	T	T	T	T					T	T	0.01	T	05	
06	T				0.01	T	0.05	0.01				T								0.03	0.01	T		0.04	T	06	
07	0.04	T	0.04	0.13s	0.12	T	T	0.02	0.01	0.01	T	0.01							0.66	0.33	0.03		T	T	T	07	
08	0.01	T		T																						08	
09																										09	
10																										10	
11																										11	
12																				T						12	
13																										13	
14																										14	
15																										15	
16	0.04	T	0.20	0.06	0.04	0.07	T																0.24	T	0.75	0.55	16
17									T																		17
18																											18
19				T																							19
20					T																						20
21					0.04	0.02	0.03	T												0.11	T	0.42	T	T			21
22																											22
23	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	23
24	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	24
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