

Local Climatological Data Daily Summary November 2021

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

Generated on 12/13/2021

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		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	65	44	55	0.6				10	0	0659	1741	FG BR	0.00			29.25		0.3	11	090	7	080			
02	56	42	49	-5.0				16	0	0700	1740	RA	T			29.30		1.5	*	7	070				
03	51	41	46	-7.7				19	0	0701	1739		0.00			29.33		1.4	16	080	10	070			
04	51	37	44	-9.3				21	0	0702	1738	BR	0.00			29.28		0.3	8	070	5	160			
05	58	33	46	-7.0				19	0	0703	1737	SN	0.00s			29.31		1.0	14	090	9	090			
06	60	32	46	-6.6				19	0	0704	1736	SN	0.00s			29.28		1.4	15	080	10	090			
07	64	32	48	-4.3				17	0	0705	1736	SN FG BR	0.00s			29.25		0.5	13	070	7	070			
08	71	34	53	1.1				12	0	0706	1735		0.00s			29.31		0.8	10	070	7	090			
09	72	37	55	3.4				10	0	0707	1734	FG BR	0.00s			29.29		0.3	11	190	6	150			
10	73*	42	58	6.8				7	0	0708	1733	FG BR	0.00s			29.18		0.6	10	150	7	140			
11	70	42	56	5.1				9	0	0709	1732	RA BR	0.48			29.03		1.7	31	280	16	290			
12	63	42	53	2.5				12	0	0710	1732	RA FG BR	T			29.07		1.6	19	180	10	190			
13	51s	32	42s	-8.2s				23s	0s	0711	1731	RA	0.02			29.08		1.8	20	270	10	270			
14	54	30	42	-7.8				23	0	0712	1730		0.00			29.07		2.4	20	220	10	210			
15	53	31	42	-7.4				23	0	0713	1729		0.00			29.19		1.3	18	250	12	280			
16	58	34	46	-3.1				19	0	0714	1729		0.00			29.20		0.4	9	260	6	260			
17	72	48	60	11.3				5	0	0715	1728		0.00			29.21		1.9	25	200	13	190			
18	61	33	47	-1.4				18	0	0716	1728	RA SN BR	0.08			29.26		1.0	17	270	9	270			
19	50	28	39	-9.0				26	0	0717	1727	FZFG BR FG	0.00s			29.47		1.9	19	080	12	080			
20	55	29	42	-5.7				23	0	0718	1727	BR	0.00			29.41		0.3	10	270	7	290			
21	55	34	45	-2.3				20	0	0719	1726	RA BR	0.32			29.25		1.3	10	290	7	270			
22	52	31	42	-5.0				23	0	0720	1726	RA BR	0.05			29.11		4.6	22	010	13	330			
23	45	24*	35	-11.6				30	0	0721	1725		0.00			29.29		0.5	9	140	6	170			
24	56	25	41	-5.3				24	0	0722	1725		0.00			29.35		1.5	17	190	10	200			
25	58	34	46	0.0				19	0	0723	1724	RA BR	0.11			29.23		2.4	20	180	9	260			
26	49	29	39	-6.6				26	0	0724	1724		0.00			29.17		1.8	17	350	10	340			
27	54	25	40	-5.3				25	0	0725	1724		0.00			29.13		1.4	16	220	9	210			
28	59	31	45	0.0				20	0	0726	1723		0.00			29.05		2.1	17	260	9	260			
29	46	30	38	-6.7				27	0	0727	1723		0.00			29.17		2.5	17	340	8	070			
30	60	31	46	1.7				19	0	0728	1723		0.00			29.15		1.5	17	210	9	200			
Monthly Averages Totals													1.06			29.22	30.23	1.3							
Departure from Normal (1981-2010)													-3.43												
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		570			87			719		>=90°		<=32°		<=32°		<=0°		6		3		6			
Cooling		0			-2			1588		0		0		15		0									
Date of 5-sec to 3-sec wind equipment change								Sea Level Pressure								Greatest...									
2007-03-22								Maximum				Date				Time				24-Hr...		Snowfall		Snow Depth	
								30.57				19				0853				0.48					
								29.83				11				1705									
Date														11-12											
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
 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 November 2021

Generated on 12/13/2021

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

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	0024	7	SCT:04 3	8.00		46	7.8	45	7.2	44	6.7	93	0	000		29.21				FM-16		30.19
01	0033	7	BKN:07 2	2.50	BR:1	45	7.2	45	7.2	44	6.7	97	0	000		29.21				FM-16		30.19
01	0036	7	VV:09 2	0.75	BR:1	46	7.8	45	7.2	44	6.7	93	0	000		29.21				FM-16		30.19
01	0049	7	VV:09 2	0.25	FG:2 FG	46	7.8	46	7.8	45	7.2	93	0	000		29.21				FM-16		30.19
01	0053	7	VV:09 2	0.25	FG:2 FG	46	7.8	46	7.8	45	7.2	96	0	000		29.22	1	-0.01	30.20	FM-15	0.00	30.20
01	0153	7	VV:09 2	0.25	FG:2 FG	46	7.8	46	7.8	46	7.8	100	0	000		29.21			30.19	FM-15	0.00	30.19
01	0253	7	VV:09 2	0.25	FG:2 FG	46	7.8	46	7.8	46	7.8	100	0	000		29.22			30.20	FM-15	0.00	30.20
01	0353	7	VV:09 2	0.25	FG:2 FG	46	7.8	46	7.8	45	7.2	96	0	000		29.23	3	-0.01	30.21	FM-15	0.00	30.21
01	0453	7	VV:09 2	0.25	FG:2 FG	45	7.2	45	7.2	44	6.7	97	0	000		29.25			30.23	FM-15	0.00	30.23
01	0553	7	VV:09 2	0.25	FG:2 FG	45	7.2	45	7.2	44	6.7	97	0	000		29.26			30.24	FM-15	0.00	30.24
01	0653	7	VV:09 2	0.25	FG:2 FG	45	7.2	45	7.2	44	6.7	97	0	000		29.27	1	-0.05	30.26	FM-15	0.00	30.25
01	0722	7	VV:09 2	0.00	FG:2 FG	45	7.2	45	7.2	44	6.7	97	0	000		29.28				FM-16		30.26
01	0737	7	VV:09 2	0.25	FG:2 FG	44	6.7	44	6.7	44	6.7	100	0	000		29.29				FM-16		30.27
01	0753	7	VV:09 2	0.25	FG:2 FG	45	7.2	45	7.2	44	6.7	97	0	000		29.29			30.28	FM-15	0.00	30.27
01	0819	7	VV:09 2	0.75	BR:1	45	7.2	45	7.2	45	7.2	100	0	000		29.31				FM-16		30.29
01	0826	7	OVC:08 2	1.00	BR:1	45	7.2	45	7.2	45	7.2	100	0	000		29.31				FM-16		30.29
01	0837	7	OVC:08 2	3.00	BR:1	46	7.8	46	7.8	45	7.2	96	0	000		29.31				FM-16		30.29
01	0851	6	OVC:08 2	2.00V	BR:1	46	7.8	46	7.8	46	7.8	100	0	000		29.31				FM-16		30.29
01	0853	7	OVC:08 2	1.75V	BR:1	47	8.3	47	8.3	46	7.8	97	0	000		29.31			30.30	FM-15	0.00	30.29
01	0904	6	OVC:08 2	3.00	BR:1	48	8.9	47	8.3	47	8.3	96	0	000		29.31				FM-16		30.29
01	0921	7	SCT:04 2	10.00		50	10.0	49	9.4	48	8.9	93	0	000		29.31				FM-16		30.29
01	0953	7	CLR:00	10.00		54	12.2	51	10.6	49	9.4	83	0	000		29.30	0	-0.03	30.29	FM-15	0.00	30.28
01	1053	7	CLR:00	10.00		58	14.4	52	11.1	47	8.3	67	0	000		29.32			30.30	FM-15	0.00	30.30
01	1153	7	CLR:00	10.00		60	15.6	53	11.7	46	7.8	60	0	000		29.30			30.28	FM-15	0.00	30.28
01	1253	7	CLR:00	10.00		62	16.7	54	12.2	46	7.8	56	0	000		29.27	8	+0.03	30.25	FM-15	0.00	30.25
01	1353	7	CLR:00	10.00		64	17.8	54	12.2	46	7.8	52	3	VRB		29.25			30.23	FM-15	0.00	30.23
01	1453	7	CLR:00	10.00		63	17.2	54	12.2	46	7.8	54	3	100		29.24			30.22	FM-15	0.00	30.22
01	1553	7	FEW:02 41	10.00		64	17.8	55	12.8	47	8.3	54	0	000		29.23	6	+0.04	30.21	FM-15	0.00	30.21
01	1653	7	CLR:00	10.00		63	17.2	54	12.2	46	7.8	54	0	000		29.23			30.21	FM-15	0.00	30.21
01	1753	7	FEW:02 43	10.00		58	14.4	54	12.2	50	10.0	75	0	000		29.24			30.22	FM-15	0.00	30.22
01	1853	7	CLR:00	10.00		54	12.2	51	10.6	48	8.9	80	0	000		29.26	3	-0.03	30.25	FM-15	0.00	30.24
01	1953	7	CLR:00	10.00		51	10.6	49	9.4	47	8.3	86	0	000		29.27			30.26	FM-15	0.00	30.25
01	2053	7	CLR:00	10.00		50	10.0	48	8.9	45	7.2	83	0	000		29.29			30.28	FM-15	0.00	30.27
01	2153	7	CLR:00	10.00		48	8.9	46	7.8	44	6.7	86	0	000		29.29	0	-0.03	30.27	FM-15	0.00	30.27
01	2253	7	CLR:00	10.00		47	8.3	46	7.8	44	6.7	90	0	000		29.28			30.27	FM-15	0.00	30.26
01	2353	7	CLR:00	10.00		46	7.8	45	7.2	43	6.1	89	0	000		29.28			30.26	FM-15	0.00	30.26

U.S. Department of Commerce
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Local Climatological Data
Hourly Remarks
November 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 12/13/2021

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

Date	Time (LST)	Remarks
01	0024	MET08511/01/21 00:24:02 SPECI KOQT 010524Z 00000KT 8SM SCT003 08/07 A3019 RMK AO2 T00780067
01	0033	MET09211/01/21 00:33:02 SPECI KOQT 010533Z 00000KT 2 1/2SM BR BKN002 07/07 A3019 RMK AO2 T00720067
01	0036	MET08911/01/21 00:36:02 SPECI KOQT 010536Z 00000KT 3/4SM BR VV002 08/07 A3019 RMK AO2 T00780067
01	0049	MET07911/01/21 00:49:02 SPECI KOQT 010549Z 00000KT 1/4SM FG VV002 08/07 A3019 RMK AO2
01	0053	MET11411/01/21 00:53:02 METAR KOQT 010553Z 00000KT 1/4SM FG VV002 08/07 A3020 RMK AO2 SLP227 T00780072 10128 20072 51005
01	0153	MET09611/01/21 01:53:02 METAR KOQT 010653Z 00000KT 1/4SM FG VV002 08/08 A3019 RMK AO2 SLP224 T00780078
01	0253	MET09611/01/21 02:53:02 METAR KOQT 010753Z 00000KT 1/4SM FG VV002 08/08 A3020 RMK AO2 SLP226 T00780078
01	0353	MET10211/01/21 03:53:02 METAR KOQT 010853Z 00000KT 1/4SM FG VV002 08/07 A3021 RMK AO2 SLP230 T00780072 53004
01	0453	MET09611/01/21 04:53:02 METAR KOQT 010953Z 00000KT 1/4SM FG VV002 07/07 A3023 RMK AO2 SLP238 T00720067
01	0553	MET09611/01/21 05:53:02 METAR KOQT 011053Z 00000KT 1/4SM FG VV002 07/07 A3024 RMK AO2 SLP242 T00720067
01	0653	MET11411/01/21 06:53:02 METAR KOQT 011153Z 00000KT 1/4SM FG VV002 07/07 A3025 RMK AO2 SLP248 T00720067 10083 20072 51016
01	0722	MET09011/01/21 07:22:02 SPECI KOQT 011222Z 00000KT M1/4SM FG VV002 07/07 A3026 RMK AO2 T00720067
01	0737	MET08911/01/21 07:37:02 SPECI KOQT 011237Z 00000KT 1/4SM FG VV002 07/07 A3027 RMK AO2 T00670067
01	0753	MET09611/01/21 07:53:02 METAR KOQT 011253Z 00000KT 1/4SM FG VV002 07/07 A3027 RMK AO2 SLP255 T00720067
01	0819	MET08911/01/21 08:19:02 SPECI KOQT 011319Z 00000KT 3/4SM BR VV002 07/07 A3029 RMK AO2 T00720072
01	0826	MET08811/01/21 08:26:02 SPECI KOQT 011326Z 00000KT 1SM BR OVC002 07/07 A3029 RMK AO2 T00720072
01	0837	MET08811/01/21 08:37:02 SPECI KOQT 011337Z 00000KT 3SM BR OVC002 08/07 A3029 RMK AO2 T00780072
01	0851	MET09511/01/21 08:51:02 SPECI KOQT 011351Z 00000KT 2SM BR OVC002 08/08 A3029 RMK AO2 VIS 1 1/2V5 FIBI
01	0853	MET11511/01/21 08:53:02 METAR KOQT 011353Z 00000KT 1 3/4SM BR OVC002 08/08 A3029 RMK AO2 VIS 1 1/4V2 1/2 SLP261 T00830078
01	0904	MET08811/01/21 09:04:02 SPECI KOQT 011404Z 00000KT 3SM BR OVC002 09/08 A3029 RMK AO2 T00890083
01	0921	MET08611/01/21 09:21:02 SPECI KOQT 011421Z 00000KT 10SM SCT002 10/09 A3029 RMK AO2 T01000089
01	0953	MET09611/01/21 09:53:02 METAR KOQT 011453Z 00000KT 10SM CLR 12/09 A3028 RMK AO2 SLP257 T01220094 50010
01	1053	MET09411/01/21 10:53:02 METAR KOQT 011553Z 00000KT 10SM CLR 14/08 A3030 RMK AO2 SLP260 T01440083 RTX
01	1153	MET09011/01/21 11:53:02 METAR KOQT 011653Z 00000KT 10SM CLR 16/08 A3028 RMK AO2 SLP254 T01560078
01	1253	MET10811/01/21 12:53:02 METAR KOQT 011753Z 00000KT 10SM CLR 17/08 A3025 RMK AO2 SLP245 T01670078 10167 20067 58011
01	1353	MET09011/01/21 13:53:02 METAR KOQT 011853Z VRB03KT 10SM CLR 18/08 A3023 RMK AO2 SLP236 T01780078
01	1453	MET09011/01/21 14:53:02 METAR KOQT 011953Z 10003KT 10SM CLR 17/08 A3022 RMK AO2 SLP232 T01720078
01	1553	MET09911/01/21 15:53:02 METAR KOQT 012053Z 00000KT 10SM FEW041 18/08 A3021 RMK AO2 SLP229 T01780083 56014
01	1653	MET09411/01/21 16:53:02 METAR KOQT 012153Z 00000KT 10SM CLR 17/08 A3021 RMK AO2 SLP230 T01720078 RTX
01	1753	MET09311/01/21 17:53:02 METAR KOQT 012253Z 00000KT 10SM FEW043 14/10 A3022 RMK AO2 SLP235 T01440100
01	1853	MET10811/01/21 18:53:02 METAR KOQT 012353Z 00000KT 10SM CLR 12/09 A3024 RMK AO2 SLP243 T01220089 10183 20122 53010
01	1953	MET09011/01/21 19:53:01 METAR KOQT 020053Z 00000KT 10SM CLR 11/08 A3025 RMK AO2 SLP247 T01060083
01	2053	MET09011/01/21 20:53:01 METAR KOQT 020153Z 00000KT 10SM CLR 10/07 A3027 RMK AO2 SLP254 T01000072
01	2153	MET09611/01/21 21:53:01 METAR KOQT 020253Z 00000KT 10SM CLR 09/07 A3027 RMK AO2 SLP252 T00890067 50009
01	2253	MET09011/01/21 22:53:02 METAR KOQT 020353Z 00000KT 10SM CLR 08/07 A3026 RMK AO2 SLP249 T00830067
01	2353	MET10011/01/21 23:53:02 METAR KOQT 020453Z 00000KT 10SM CLR 08/06 A3026 RMK AO2 SLP247 T00780061 401830067

Local Climatological Data
Hourly Precipitation
November 2021

Generated on 12/13/2021

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																									01	
02			T		T	T	T	T																		02
03																										03
04																										04
05	T			T			T	T																		05
06						T		T	T																	06
07					T																					07
08									T																	08
09					T																					09
10							T																			10
11																	T	0.09	0.31	0.02	0.06	T				11
12									T																	12
13		T	0.02																							13
14																										14
15																										15
16																										16
17																										17
18												T	0.05	0.01	0.02	T							T	T		18
19			T																							19
20																										20
21																				0.01	0.06	0.05	0.03	0.13	0.04	21
22	0.01	T	0.04	T																						22
23																										23
24																										24
25															T	T	T	0.01	0.01	0.02	0.06	0.01	T	T		25
26																										26
27																										27
28																										28
29																										29
30																										30

Maximum Short Duration Precipitation

Time Period (Minutes)	5	10	15	20	30	45	60	80	100	120	150	180
Precipitation (inches)	0.07	0.14	0.20	0.24	0.28	0.32	0.34	0.37	0.40	0.42	0.43	0.47
Ending Date Time (yyyy-mm-dd hh:mi)	2021-11-11 18:22	2021-11-11 18:20	2021-11-11 18:22	2021-11-11 18:22	2021-11-11 18:30	2021-11-11 18:39	2021-11-11 18:49	2021-11-11 18:49	2021-11-11 18:49	2021-11-11 19:10	2021-11-11 20:15	2021-11-11 20:15

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