

Local Climatological Data
Daily Summary
December 2017

Generated on 01/08/2018

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	62	43	52	8.3				13	0	0729	1723	BR	0.00			29.20		1.2	11	060	8	070			
02	65	43	54	10.6				11	0	0730	1723		0.00			29.18		1.1	11	280	8	270			
03	65	36	50	6.9				15	0	0731	1723	RA FG BR	0.00s			29.23		0.5	9	090	7	090			
04	67	36	52	9.1				13	0	0732	1723		0.00			29.23		2.6	17	190	12	200			
05	59	41	50	7.4				15	0	0732	1722	RA BR	1.01			29.13		3.7	16	360	9	340			
06	44	34	39	-3.3				26	0	0733	1722		0.00			29.23		1.2	16	340	10	330			
07	50	34	42	-0.1				23	0	0734	1722		0.00			29.18		1.7	15	280	10	280			
08	37	31	34	-7.8				31	0	0735	1723		0.00			29.11		2.6	11	070	8	070			
09	42	29	36	-5.6				29	0	0736	1723		T			28.97		4.8	26	280	16	270			
10	43	24	34	-7.3				31	0	0737	1723		0.00			29.21		3.4	19	290	12	190			
11	55	27	41	-0.1				24	0	0737	1723		0.00			29.11		3.4	17	260	10	190			
12	47	29	38	-2.9				27	0	0738	1723		0.00			28.95		6.4	27s	270s	16	280			
13	44	20	32	-8.7				33	0	0739	1723		0.00			28.97		4.2	26	190	15	200			
14	50	28	39	-1.4				26	0	0739	1724		0.00			28.92		2.7	13	260	8	280			
15	39	28	34	-6.2				31	0	0740	1724		0.00			29.10		2.8	17	240	12	260			
16	49	23	36	-4.1				29	0	0741	1724		0.00			29.27		1.9	14	190	10	200			
17	43	30	36	-3.9				29	0	0741	1725	RA BR	0.04			29.24		0.7	10	270	7	280			
18	50	42	46	6.3				19	0	0742	1725	RA BR	T			29.20		1.3	9	230	6	270			
19	54	45	50	10.5				15	0	0743	1725	RA FG BR	0.07			29.18		3.7	14	260	9	260			
20	56	50	53	13.6				12	0	0743	1726	RA BR	1.15			29.00		3.1	18	060	13	070			
21	57	49	53	13.8				12	0	0744	1726	RA BR	0.01			29.05		1.9	15	210	9	230			
22	56	52	54	14.9				11	0	0744	1727	RA FG BR	0.60			29.13		2.5	14	240	8	280			
23	67*	44	56	17.1				9	0	0745	1727	RA FG BR	0.65			28.95		6.1	40	210	21	200			
24	48	35	42	3.2				23	0	0745	1728	RA SN BR	0.01			29.10		5.4	26	250	16	260			
25	35	25	30	-8.6				35	0	0746	1729		0.00			29.39		3.3	24	270	16	280			
26	43	28	36	-2.5				29	0	0746	1729		0.00			29.44		3.1	14	080	10	080			
27	40	22	31	-7.4				34	0	0746	1730		0.00			29.49		3.7	*		9	070			
28	39	19	29	-9.3				36	0	0747	1730		0.00			29.47		3.2	16	070	13	070			
29	42	26	34	-4.2				31	0	0747	1731		0.00			29.33		0.9	9	090	7	090			
31	30	16*	23	-15.1				42	0	0747	1733		0.00			29.29		5.5	17	080	12	060			
	48.9	32.8	40.9										3.54			29.18	30.18	2.9							
	-0.7	1.7	0.6										-1.32												
	Monthly Averages Totals											3.54			29.18	30.18	2.9								
	Departure from Normal (1981-2010)											-1.32													
	Degree Days											Number of days with...													
	Monthly				Season-to-date				Temperature				Precipitation		Snow	Weather									
	Total	Departure	Total	Departure	Max	Min	Max	Min	Max	Min	Max	Min	>=0.01"	>=0.1"	>=1"	T-Storms	Heavy Fog								
	Heating	715	-49	1337	>=90°	<=32°	<=32°	<=0°	8	4															
	Cooling	0	0	1584	0	1	17	0																	
	Date of 5-sec to 3-sec wind equipment change							Sea Level Pressure					Greatest...												
	2007-03-22							Maximum		30.61	Date	27	Time	1908	24-Hr...		Snow Depth								
								Minimum		29.76			23	1004	Precip	Snowfall									
															Date										
															22-23										
	Station Augmentation																								
	Name:OAK RIDGE ATDD, TN Lat: 35.998 Lon: -84.2192 Elevation: 1019ft 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 53868

Local Climatological Data Hourly Observations December 2017

Generated on 01/08/2018

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	0030	7	BKN:07 19 OVC:08 26	1.75	BR	52	11.1	52	11.1	52	11.1	100	0	000		29.18				FM-16		30.16
01	0038	7	BKN:07 21 OVC:08 26	2.00	BR	52	11.1	52	11.1	52	11.1	100	0	000		29.18				FM-16		30.16
01	0050	6	OVC:08 24	1.50	BR	52	11.0	52	11.1	52	11.0	100	0	000		29.18				FM-16		30.16
01	0053	7	OVC:08 24	1.50	BR	52	11.1	52	11.1	52	11.1	100	0	000		29.18	1	-0.01	30.15	FM-15	0.00	30.16
01	0127	7	OVC:08 18	2.00	BR	52	11.1	52	11.1	52	11.1	100	0	000		29.18				FM-16		30.16
01	0143	7	OVC:08 18	3.00	BR	52	11.1	52	11.1	52	11.1	100	0	000		29.18				FM-16		30.16
01	0153	7	OVC:08 18	5.00	BR	53	11.7	53	11.7	53	11.7	100	0	000		29.18			30.16	FM-15	0.00	30.16
01	0253	7	OVC:08 29	9.00		52	11.1	51	10.8	51	10.6	97	3	080		29.19			30.17	FM-15	0.00	30.17
01	0305	7	OVC:08 31	9.00		52	11.1	51	10.5	50	10.0	93	0	000		29.18				FM-16		30.16
01	0345	7	BKN:07 25	8.00		49	9.4	48	9.2	48	8.9	97	3	080		29.18				FM-16		30.16
01	0353	7	BKN:07 26	8.00		49	9.4	48	9.2	48	8.9	97	0	000		29.18	0	-0.00	30.16	FM-15	0.00	30.16
01	0453	7	OVC:08 27	10.00		50	10.0	49	9.4	48	8.9	93	3	070		29.18			30.16	FM-15	0.00	30.16
01	0553	7	OVC:08 28	10.00		50	10.0	48	9.2	47	8.3	89	0	000		29.20			30.18	FM-15	0.00	30.18
01	0615	7	OVC:08 30	10.00		50	10.0	48	9.2	47	8.3	89	0	000		29.21				FM-16		30.19
01	0653	7	FEW:02 31	10.00		47	8.3	47	8.1	46	7.8	97	3	090		29.21	3	-0.03	30.20	FM-15	0.00	30.19
01	0753	7	CLR:00	7.00		46	7.8	46	7.5	45	7.2	96	0	000		29.22			30.21	FM-15	0.00	30.20
01	0851	6	BKN:07 18	9.00		48	9.0	47	8.3	46	8.0	94	0	000		29.24				FM-16		30.22
01	0853	7	BKN:07 18	9.00		48	8.9	47	8.3	46	7.8	93	0	000		29.24			30.23	FM-15	0.00	30.22
01	0953	7	OVC:08 21	10.00		52	11.1	49	9.7	47	8.3	83	3	VRB		29.25	1	-0.04	30.23	FM-15	0.00	30.23
01	1053	7	OVC:08 24	10.00		53	11.7	50	10.0	47	8.3	80	5	VRB		29.25			30.23	FM-15	0.00	30.23
01	1149	6	SCT:04 27	10.00		55	13.0	51	10.7	48	9.0	77	3	VRB		29.24				FM-16		30.22
01	1153	7	FEW:02 27	10.00		56	13.3	52	11.0	48	8.9	75	3	VRB		29.24			30.22	FM-15	0.00	30.22
01	1253	7	FEW:02 28	10.00		59	15.0	54	12.0	49	9.4	69	3	VRB		29.22	8	+0.03	30.19	FM-15	0.00	30.20
01	1315	7	BKN:07 26	10.00		59	15.0	54	12.0	49	9.4	69	0	000		29.22				FM-16		30.20
01	1346	7	FEW:02 26	10.00		61	16.1	55	12.5	49	9.4	65	0	000		29.20				FM-16		30.18
01	1353	7	FEW:02 26	10.00		61	16.1	54	12.2	48	8.9	63	0	000		29.20			30.18	FM-15	0.00	30.18
01	1453	7	CLR:00	10.00		61	16.1	54	12.2	48	8.9	63	3	VRB		29.19			30.16	FM-15	0.00	30.17
01	1553	7	CLR:00	10.00		61	16.1	54	12.2	48	8.9	63	0	000		29.18	6	+0.04	30.16	FM-15	0.00	30.16
01	1653	7	CLR:00	10.00		59	15.0	53	11.5	47	8.3	64	0	000		29.18			30.16	FM-15	0.00	30.16
01	1753	7	CLR:00	10.00		53	11.7	50	10.2	48	8.9	83	0	000		29.19			30.17	FM-15	0.00	30.17
01	1853	7	CLR:00	10.00		49	9.4	48	8.9	47	8.3	93	0	000		29.20	3	-0.02	30.19	FM-15	0.00	30.18
01	1953	7	CLR:00	10.00		48	8.9	47	8.3	46	7.8	93	0	000		29.20			30.20	FM-15	0.00	30.18
01	2053	7	CLR:00	10.00		46	7.8	46	7.5	45	7.2	96	0	000		29.21			30.20	FM-15	0.00	30.19
01	2153	7	CLR:00	10.00		45	7.2	45	7.0	44	6.7	97	0	000		29.20	0	-0.01	30.19	FM-15	0.00	30.18
01	2253	7	CLR:00	8.00		44	6.7	44	6.7	44	6.7	100	0	000		29.20			30.19	FM-15	0.00	30.18
01	2353	7	FEW:02 48	6.00	BR	43	6.1	43	6.1	43	6.1	100	0	000		29.20			30.19	FM-15	0.00	30.18

U.S. Department of Commerce
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Current Location: Elev: 900 ft. Lat: 36.0230° N Lon: -84.2337° W
Station: **OAK RIDGE ASOS, TN US 53868**

Local Climatological Data
Hourly Remarks
December 2017

Generated on 01/08/2018

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

Date	Time (LST)	Remarks
01	0030	MET09912/01/17 00:30:02 SPECI KOQT 010530Z 00000KT 1 3/4SM BR BKN019 OVC026 11/11 A3016 RMK AO2 T01110111
01	0038	MET09512/01/17 00:38:02 SPECI KOQT 010538Z 00000KT 2SM BR BKN021 OVC026 11/11 A3016 RMK AO2 T01110111
01	0050	MET09112/01/17 00:50:02 SPECI KOQT 010550Z 00000KT 1 1/2SM BR OVC024 11/11 A3016 RMK AO2 RTX FIBI
01	0053	MET12312/01/17 00:53:02 METAR KOQT 010553Z 00000KT 1 1/2SM BR OVC024 11/11 A3016 RMK AO2 SLP211 60003 T01110111 10122 20106 51005
01	0127	MET09212/01/17 01:27:02 SPECI KOQT 010627Z 00000KT 2SM BR OVC018 11/11 A3016 RMK AO2 T01110111 RTX
01	0143	MET09212/01/17 01:43:02 SPECI KOQT 010643Z 00000KT 3SM BR OVC018 11/11 A3016 RMK AO2 T01110111 RTX
01	0153	MET09512/01/17 01:53:02 METAR KOQT 010653Z 00000KT 5SM BR OVC018 12/12 A3016 RMK AO2 SLP213 T011170117
01	0253	MET09212/01/17 02:53:02 METAR KOQT 010753Z 08003KT 9SM OVC029 11/11 A3017 RMK AO2 SLP216 T01110106
01	0305	MET08912/01/17 03:05:02 SPECI KOQT 010805Z 00000KT 9SM OVC031 11/10 A3016 RMK AO2 T01110100 RTX
01	0345	MET08512/01/17 03:45:02 SPECI KOQT 010845Z 08003KT 8SM BKN025 09/09 A3016 RMK AO2 T00940089
01	0353	MET09812/01/17 03:53:02 METAR KOQT 010853Z 00000KT 8SM BKN026 09/09 A3016 RMK AO2 SLP214 T00940089 50000
01	0453	MET09312/01/17 04:53:02 METAR KOQT 010953Z 07003KT 10SM OVC027 10/09 A3016 RMK AO2 SLP214 T01000089
01	0553	MET09312/01/17 05:53:02 METAR KOQT 011053Z 00000KT 10SM OVC028 10/08 A3018 RMK AO2 SLP220 T01000083
01	0615	MET08612/01/17 06:15:02 SPECI KOQT 011115Z 00000KT 10SM OVC030 10/08 A3019 RMK AO2 T01000083
01	0653	MET11712/01/17 06:53:02 METAR KOQT 011153Z 09003KT 10SM FEW031 08/08 A3019 RMK AO2 SLP226 70007 T00830078 10122 20083 53011
01	0753	MET08912/01/17 07:53:02 METAR KOQT 011253Z 00000KT 7SM CLR 08/07 A3020 RMK AO2 SLP231 T00780072
01	0851	MET08012/01/17 08:51:02 SPECI KOQT 011351Z 00000KT 9SM BKN018 09/08 A3022 RMK AO2 FIBI
01	0853	MET09212/01/17 08:53:02 METAR KOQT 011353Z 00000KT 9SM BKN018 09/08 A3022 RMK AO2 SLP237 T00890078
01	0953	MET09912/01/17 09:53:02 METAR KOQT 011453Z VRB03KT 10SM OVC021 11/08 A3023 RMK AO2 SLP238 T01110083 51013
01	1053	MET09312/01/17 10:53:02 METAR KOQT 011553Z VRB04KT 10SM OVC024 12/08 A3023 RMK AO2 SLP238 T01170083
01	1149	MET08512/01/17 11:49:02 SPECI KOQT 011649Z VRB03KT 10SM SCT027 13/09 A3022 RMK AO2 RTX FIBI
01	1153	MET09312/01/17 11:53:02 METAR KOQT 011653Z VRB03KT 10SM FEW027 13/09 A3022 RMK AO2 SLP234 T01330089
01	1253	MET11112/01/17 12:53:02 METAR KOQT 011753Z VRB03KT 10SM FEW028 15/09 A3020 RMK AO2 SLP225 T01500094 10150 20078 58010
01	1315	MET09012/01/17 13:15:02 SPECI KOQT 011815Z 00000KT 10SM BKN026 15/09 A3020 RMK AO2 T01500094 RTX
01	1346	MET08612/01/17 13:46:02 SPECI KOQT 011846Z 00000KT 10SM FEW026 16/09 A3018 RMK AO2 T01610094
01	1353	MET09312/01/17 13:53:02 METAR KOQT 011853Z 00000KT 10SM FEW026 16/09 A3018 RMK AO2 SLP219 T01610089
01	1453	MET09012/01/17 14:53:02 METAR KOQT 011953Z VRB03KT 10SM CLR 16/09 A3017 RMK AO2 SLP214 T01610089
01	1553	MET09612/01/17 15:53:02 METAR KOQT 012053Z 00000KT 10SM CLR 16/09 A3016 RMK AO2 SLP212 T01610089 56014
01	1653	MET09012/01/17 16:53:02 METAR KOQT 012153Z 00000KT 10SM CLR 15/08 A3016 RMK AO2 SLP213 T01500083
01	1753	MET09012/01/17 17:53:02 METAR KOQT 012253Z 00000KT 10SM CLR 12/09 A3017 RMK AO2 SLP218 T01170089
01	1853	MET10812/01/17 18:53:02 METAR KOQT 012353Z 00000KT 10SM CLR 09/08 A3018 RMK AO2 SLP223 T00940083 10167 20094 53006
01	1953	MET09012/01/17 19:53:01 METAR KOQT 020053Z 00000KT 10SM CLR 09/08 A3018 RMK AO2 SLP226 T00890078
01	2053	MET09012/01/17 20:53:01 METAR KOQT 020153Z 00000KT 10SM CLR 08/07 A3019 RMK AO2 SLP228 T00780072
01	2153	MET09612/01/17 21:53:02 METAR KOQT 020253Z 00000KT 10SM CLR 07/07 A3018 RMK AO2 SLP224 T00720067 50002
01	2253	MET08912/01/17 22:53:02 METAR KOQT 020353Z 00000KT 8SM CLR 07/07 A3018 RMK AO2 SLP225 T00670067
01	2353	MET10512/01/17 23:53:02 METAR KOQT 020453Z 00000KT 6SM BR FEW048 06/06 A3018 RMK AO2 SLP223 T00610061 401670061

Local Climatological Data
Hourly Precipitation
December 2017

Generated on 01/08/2018

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																			03	
04																								04	
05								0.02	0.09	0.34	0.18	0.02	T	0.03	0.11	0.08	0.07	0.07		T				05	
06																								06	
07																								07	
08																								08	
09																				T	T			09	
10																								10	
11																								11	
12																								12	
13																								13	
14																								14	
15																								15	
16																								16	
17									T		T	T	0.01	0.02	0.01									17	
18																							T	18	
19	T																	T	T			0.05s	0.01	0.01	19
20	0.02	0.11	0.05	0.10	0.14	0.19	0.19	0.14	0.08	0.04	T	0.01	0.01		T	0.03		T	0.01	0.02	0.01				20
21										0.01s	T														21
22															T	0.23s	0.25	0.01		0.02	0.02	0.01	0.04	0.02	22
23	0.01	T	T	T	T				0.06	0.09	0.38	0.10	0.01	T											23
24																		T	T	0.01	T	T	T	T	24
25																									25
26																									26
27																									27
28																									28
29																									29
30																	M	M	M						30
31			M	M	M	M	M	M	M	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)	0.16	0.19	0.23	0.27	0.32	0.38	0.43	0.46	0.53	0.58	0.62	0.63
Ending Date Time (yyyy-mm-dd hh:mi)	2017-12-23 10:36	2017-12-23 10:38	2017-12-23 10:36	2017-12-23 10:36	2017-12-23 10:46	2017-12-23 11:03	2017-12-23 11:07	2017-12-23 11:25	2017-12-05 10:25	2017-12-05 10:47	2017-12-05 11:14	2017-12-23 11:47

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