

## Local Climatological Data Daily Summary January 2019

Generated on 02/07/2019

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	59	46	53	15.1				12	0	0748	1734	RA	0.02			29.18		0.5	9	230	6	080		
02	50	46	48	10.1				17	0	0748	1734	RA BR	0.12			29.19		1.5	10	210	7	190		
03	51	46	49	11.2				16	0	0748	1735	RA BR	0.49			29.10		0.9	8	070	6	060		
04	61	45	53	15.3				12	0	0748	1736	RA BR	0.73			28.79		4.7	23	280	14	230		
05	58	40	49	11.3				16	0	0748	1737	RA	0.04			29.00		4.5	17	270	10	260		
06	62	32	47	9.4				18	0	0748	1738	RA FG BR	T			29.24		0.3	8	200	6	200		
07	69*	44	57	19.4				8	0	0748	1739		T			29.18		4.9	26	220	16	200		
08	68	48	58	20.5				7	0	0748	1739		T			29.07		6.0	28	330	16	260		
09	48	31	40	2.5				25	0	0748	1740		0.00			29.18		5.3	20	320	14	290		
10	39	28	34	-3.5				31	0	0748	1741		0.00			29.28		3.8	15	360	10	070		
11	47	25	36	-1.4				29	0	0748	1742		0.00			29.32		2.7	12	070	8	090		
12	47	39	43	5.6				22	0	0748	1743	RA BR	0.32			29.26		0.7	11	080	7	070		
13	45	41	43	5.6				22	0	0748	1744	RA BR	0.15			29.13		1.9	11	210	7	220		
14	42	36	39	1.6				26	0	0747	1745		0.00			29.28		1.2	10	010	7	010		
15	38	33	36	-1.4				29	0	0747	1746		0.00			29.31		2.3	13	250	8	250		
16	41	32	37	-0.5				28	0	0747	1747		0.00			29.31		1.4	11	260	7	260		
17	43	36	39	1.5				26	0	0746	1748	RA BR	0.38			29.21		2.2	12	280	7	270		
18	51	43	47	9.5				18	0	0746	1749	BR	0.01			29.13		1.2	9	210	6	210		
19	54	41	47	9.5				18	0	0746	1750	RA FG BR	2.31			28.80		1.8	31	280	17	270		
20	47	21	34	-3.6				31	0	0745	1751		T			28.98		7.3	30	260	20	270		
21	30	14*	22	-15.6				43	0	0745	1752		0.00			29.46		4.1	18	060	13	080		
22	49	19	34	-3.7				31	0	0744	1753		0.00			29.45		1.7	14	160	10	170		
23	53	38	46	8.2				19	0	0744	1754	RA BR	1.41			29.08		1.9	13	240	9	270		
24	51	30	41	3.1				24	0	0743	1755	RA BR	0.10			28.90		3.7	19	280	13	270		
25	40	28	34	-3.9				31	0	0743	1756		0.00			29.24		2.9	18	180	9	300		
26	47	26	37	-1.0				28	0	0742	1757		0.00			29.25		3.4	17	260	12	270		
27	50	27	39	0.9				26	0	0741	1758		0.00			29.12		2.0	13	220	9	210		
28	56	27	42	3.7				23	0	0741	1800	RA BR UP	T			28.97		3.6	23	220	14	200		
29	51	22	37	-1.4				28	0	0740	1801	RA SN	0.02			29.01		4.6	22	200	14	210		
30	31	19	25	-13.5				40	0	0739	1802	SN	T			29.21		5.4	29	300	16	270		
31	40	20	30	-8.7				35	0	0739	1803		0.00			29.39		1.6	11	190	8	190		
<b>Monthly Averages   Totals</b>													6.10s			29.16	30.16	2.9						
<b>Departure from Normal (1981-2010)</b>													1.56s											

Degree Days				Number of days with...								
Monthly		Season-to-date		Temperature				Precipitation		Snow	Weather	
Total	Departure	Total	Departure	Max		Min						
Heating	744	-101	2169	>=90°	<=32°	<=32°	<=0°	>=0.01"	>=0.1"	>=1"	T-Storms	Heavy Fog
Cooling	0	0	0	0	2	16	0	13	9			

Date of 5-sec to 3-sec wind equipment change		Sea Level Pressure				Greatest...					
2007-03-22		Maximum		Date		Time		24-Hr...		Snow Depth	
								Precip	Snowfall		
		Minimum									
								Date			
								19-20			

**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 January 2019

Generated on 02/07/2019

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	0053	7	FEW:02 39 SCT:04 75 OVC:08 95	10.00	-RA:02  RA  RA	57	13.9	57	13.9	57	13.9	100	0	000		29.05	3	-0.03	30.01	FM-15	0.02	30.02
01	0153	7	CLR:00	10.00		56	13.3	56	13.3	56	13.3	100	0	000		29.07			30.03	FM-15	0.00	30.04
01	0253	7	BKN:07 31	10.00		56	13.3	56	13.3	56	13.3	100	0	000		29.08			30.03	FM-15	0.00	30.05
01	0353	7	FEW:02 27	10.00		55	12.8	55	12.8	55	12.8	100	0	000		29.08	1	-0.03	30.04	FM-15	0.00	30.05
01	0453	7	SCT:04 110	10.00		55	12.8	55	12.8	55	12.8	100	0	000		29.07			30.02	FM-15	0.00	30.04
01	0553	7	FEW:02 120	10.00		54	12.2	54	12.2	54	12.2	100	0	000		29.12			30.07	FM-15	0.00	30.09
01	0653	7	CLR:00	10.00		54	12.2	54	12.2	54	12.2	100	0	000		29.13	3	-0.04	30.08	FM-15	0.00	30.10
01	0753	7	CLR:00	7.00		52	11.1	52	11.1	52	11.1	100	0	000		29.15			30.12	FM-15	0.00	30.13
01	0853	7	CLR:00	7.00		53	11.7	53	11.7	53	11.7	100	0	000		29.18			30.15	FM-15	0.00	30.16
01	0953	7	CLR:00	10.00		55	12.8	55	12.8	55	12.8	100	0	000		29.20	1	-0.08	30.18	FM-15	0.00	30.18
01	1020	7	SCT:04 7	10.00		55	12.8	55	12.8	55	12.8	100	0	000		29.21				FM-16		30.19
01	1029	7	BKN:07 7	10.00		56	13.3	55	13.0	55	12.8	97	0	000		29.21				FM-16		30.19
01	1053	7	OVC:08 9	10.00		55	12.8	55	12.8	55	12.8	100	3	080		29.21			30.19	FM-15	0.00	30.19
01	1117	7	SCT:04 9 BKN:07 33	10.00		56	13.3	55	13.0	55	12.8	97	0	000		29.20				FM-16		30.18
01	1141	7	BKN:07 9	10.00		56	13.3	55	12.7	54	12.2	93	0	000		29.19				FM-16		30.17
01	1151	6	BKN:07 10	10.00		55	13.0	54	12.5	54	12.0	94	3	080		29.19				FM-16		30.17
01	1153	7	BKN:07 10	10.00		56	13.3	54	12.4	53	11.7	90	0	000		29.19			30.16	FM-15	0.00	30.17
01	1220	7	SCT:04 15	10.00		57	13.9	55	12.7	53	11.7	87	3	VRB		29.18				FM-16		30.16
01	1228	7	BKN:07 15	10.00		57	13.9	55	12.7	53	11.7	87	0	000		29.18				FM-16		30.16
01	1253	7	BKN:07 16	10.00		58	14.4	55	12.9	53	11.7	84	0	000		29.17	8	+0.03	30.14	FM-15	0.00	30.15
01	1353	7	BKN:07 22	10.00		59	15.0	56	13.2	53	11.7	81	0	000		29.16			30.14	FM-15	0.00	30.14
01	1445	7	SCT:04 27	10.00		58	14.4	55	12.6	52	11.1	81	0	000		29.16				FM-16		30.14
01	1453	7	FEW:02 27	10.00		59	15.0	55	12.9	52	11.1	78	0	000		29.17			30.14	FM-15	0.00	30.15
01	1535	7	BKN:07 22 BKN:07 32	10.00		59	15.0	55	12.9	52	11.1	78	0	000		29.18				FM-16		30.16
01	1553	7	OVC:08 22	10.00		59	15.0	55	12.9	52	11.1	78	5	090		29.19	3	-0.01	30.16	FM-15	0.00	30.17
01	1645	7	BKN:07 33	10.00		58	14.4	54	12.1	50	10.0	75	0	000		29.20				FM-16		30.18
01	1653	7	BKN:07 33	10.00		58	14.4	53	11.8	49	9.4	72	0	000		29.20			30.17	FM-15	0.00	30.18
01	1753	7	BKN:07 31	10.00		54	12.2	51	10.5	48	8.9	80	0	000		29.22			30.20	FM-15	0.00	30.20
01	1853	7	CLR:00	10.00		52	11.1	49	9.7	47	8.3	83	0	000		29.23	3	-0.04	30.22	FM-15	0.00	30.21
01	1953	7	CLR:00	10.00		50	10.0	48	8.9	46	7.8	86	3	070		29.23			30.22	FM-15	0.00	30.21
01	2053	7	CLR:00	10.00		48	8.9	47	8.1	45	7.2	89	0	000		29.24			30.23	FM-15	0.00	30.22
01	2153	7	CLR:00	10.00		47	8.3	46	7.5	44	6.7	90	0	000		29.22	8	+0.01	30.21	FM-15	0.00	30.20
01	2249	7	BKN:07 25	10.00		46	8.0	46	7.5	45	7.0	93	0	000		29.23				FM-16		30.21
01	2253	7	BKN:07 25	10.00		46	7.8	45	7.2	44	6.7	93	0	000		29.23			30.21	FM-15	0.00	30.21
01	2353	7	OVC:08 27	10.00		47	8.3	46	7.8	45	7.2	93	0	000		29.23			30.21	FM-15	0.00	30.21

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 Remarks**  
**January 2019**

Generated on 02/07/2019

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

Date	Time (LST)	Remarks
01	0053	MET14101/01/19 00:53:02 METAR KOQT 010553Z 00000KT 10SM -RA FEW039 SCT075 OVC095 14/14 A3002 RMK AO2 SLP163 P0002 60050 T01390139 10206 20139 53009
01	0153	MET10401/01/19 01:53:02 METAR KOQT 010653Z 00000KT 10SM CLR 13/13 A3004 RMK AO2 RAE0554 SLP168 P0000 T01330133
01	0253	MET09301/01/19 02:53:02 METAR KOQT 010753Z 00000KT 10SM BKN031 13/13 A3005 RMK AO2 SLP171 T01330133
01	0353	MET10501/01/19 03:53:02 METAR KOQT 010853Z 00000KT 10SM FEW027 13/13 A3005 RMK AO2 SLP172 60000 T01280128 51011
01	0453	MET10001/01/19 04:53:02 METAR KOQT 010953Z 00000KT 10SM SCT110 13/13 A3004 RMK AO2 PRESFR SLP166 T01280128
01	0553	MET09301/01/19 05:53:02 METAR KOQT 011053Z 00000KT 10SM FEW120 12/12 A3009 RMK AO2 SLP184 T01220122
01	0653	MET12001/01/19 06:53:02 METAR KOQT 011153Z 00000KT 10SM CLR 12/12 A3010 RMK AO2 SLP187 60000 70050 T01220122 10144 20117 53015
01	0753	MET08901/01/19 07:53:02 METAR KOQT 011253Z 00000KT 7SM CLR 11/11 A3013 RMK AO2 SLP200 T01110111
01	0853	MET08901/01/19 08:53:02 METAR KOQT 011353Z 00000KT 7SM CLR 12/12 A3016 RMK AO2 SLP210 T01170117
01	0953	MET09601/01/19 09:53:02 METAR KOQT 011453Z 00000KT 10SM CLR 13/13 A3018 RMK AO2 SLP219 T01280128 51027
01	1020	MET08601/01/19 10:20:02 SPECI KOQT 011520Z 00000KT 10SM SCT007 13/13 A3019 RMK AO2 T01280128
01	1029	MET09801/01/19 10:29:02 SPECI KOQT 011529Z 00000KT 10SM BKN007 13/13 A3019 RMK AO2 CIG 006V011 T01330128
01	1053	MET09301/01/19 10:53:02 METAR KOQT 011553Z 08003KT 10SM OVC009 13/13 A3019 RMK AO2 SLP223 T01280128
01	1117	MET09301/01/19 11:17:02 SPECI KOQT 011617Z 00000KT 10SM SCT009 BKN033 13/13 A3018 RMK AO2 T01330128
01	1141	MET08601/01/19 11:41:02 SPECI KOQT 011641Z 00000KT 10SM BKN009 13/12 A3017 RMK AO2 T01330122
01	1151	MET08101/01/19 11:51:02 SPECI KOQT 011651Z 08003KT 10SM BKN010 13/12 A3017 RMK AO2 FIBI
01	1153	MET09301/01/19 11:53:02 METAR KOQT 011653Z 00000KT 10SM BKN010 13/12 A3017 RMK AO2 SLP215 T01330117
01	1220	MET08601/01/19 12:20:02 SPECI KOQT 011720Z VRB03KT 10SM SCT015 14/12 A3016 RMK AO2 T01390117
01	1228	MET08601/01/19 12:28:02 SPECI KOQT 011728Z 00000KT 10SM BKN015 14/12 A3016 RMK AO2 T01390117
01	1253	MET11101/01/19 12:53:02 METAR KOQT 011753Z 00000KT 10SM BKN016 14/12 A3015 RMK AO2 SLP208 T01440117 10144 20111 58009
01	1353	MET09301/01/19 13:53:02 METAR KOQT 011853Z 00000KT 10SM BKN022 15/12 A3014 RMK AO2 SLP205 T01500117
01	1445	MET08601/01/19 14:45:02 SPECI KOQT 011945Z 00000KT 10SM SCT027 14/11 A3014 RMK AO2 T01440111
01	1453	MET09301/01/19 14:53:02 METAR KOQT 011953Z 00000KT 10SM FEW027 15/11 A3015 RMK AO2 SLP207 T01500111
01	1535	MET09301/01/19 15:35:02 SPECI KOQT 012035Z 00000KT 10SM BKN022 BKN032 15/11 A3016 RMK AO2 T01500111
01	1553	MET09901/01/19 15:53:02 METAR KOQT 012053Z 09004KT 10SM OVC022 15/11 A3017 RMK AO2 SLP214 T01500111 53004
01	1645	MET08601/01/19 16:45:02 SPECI KOQT 012145Z 00000KT 10SM BKN033 14/10 A3018 RMK AO2 T01440100
01	1653	MET09301/01/19 16:53:02 METAR KOQT 012153Z 00000KT 10SM BKN033 14/09 A3018 RMK AO2 SLP218 T01440094
01	1753	MET09301/01/19 17:53:02 METAR KOQT 012253Z 00000KT 10SM BKN031 12/09 A3020 RMK AO2 SLP227 T01220089
01	1853	MET10801/01/19 18:53:02 METAR KOQT 012353Z 00000KT 10SM CLR 11/08 A3021 RMK AO2 SLP232 T01110083 10150 20111 53015
01	1953	MET09001/01/19 19:53:01 METAR KOQT 020053Z 07003KT 10SM CLR 10/08 A3021 RMK AO2 SLP234 T01000078
01	2053	MET09001/01/19 20:53:01 METAR KOQT 020153Z 00000KT 10SM CLR 09/07 A3022 RMK AO2 SLP237 T00890072
01	2153	MET09601/01/19 21:53:01 METAR KOQT 020253Z 00000KT 10SM CLR 08/07 A3020 RMK AO2 SLP231 T00830067 58003
01	2249	MET07601/01/19 22:49:02 SPECI KOQT 020349Z 00000KT 10SM BKN025 08/07 A3021 RMK AO2
01	2253	MET09301/01/19 22:53:02 METAR KOQT 020353Z 00000KT 10SM BKN025 08/07 A3021 RMK AO2 SLP231 T00780067
01	2353	MET10301/01/19 23:53:02 METAR KOQT 020453Z 00000KT 10SM OVC027 08/07 A3021 RMK AO2 SLP231 T00830072 401500078

**Local Climatological Data**  
**Hourly Precipitation**  
**January 2019**

Generated on 02/07/2019

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	0.02																								01	
02											T	0.02	0.02	0.01	T		T					T	0.02	T	0.05	02
03	0.09	0.10	0.07	0.06	0.07	0.04	0.04	0.02	T																	03
04		T	0.01	0.04	0.08	0.11	0.14	0.04	T							0.01	0.09	0.15	0.04	T	T	T	0.01	0.01		04
05	0.01	0.03	T	T																						05
06									T	T																06
07																									T	07
08		T																								08
09																										09
10																										10
11																										11
12			T						T							0.01	T	0.08	0.10	0.05	0.01	0.01	0.02	0.04		12
13	0.01					0.05	0.04	0.04	0.01	T	T	T														13
14																										14
15																										15
16																										16
17											0.02s	0.09	0.10	0.02	T	0.02	0.02	0.03	0.01	0.01	0.02			0.02	0.02	17
18	0.01	T	T																							18
19								T	0.06	0.19	0.24	0.22	0.11	0.13	0.19	0.15	0.39	0.47	0.12	0.04				T		19
20			T	T																						20
21																										21
22																										22
23				T								T	T	0.01	0.01	T	0.01	0.07	0.12	0.24	0.21	0.14	0.27	0.20	0.13	23
24	0.03	0.03	0.01		T	0.03	T																			24
25																										25
26																										26
27																										27
28									T	T										T	T	T	T			28
29	T		T	0.01	T	T	0.01																			29
30										T	T															30
31																										31

**Maximum Short Duration Precipitation**

Time Period (Minutes)	5	10	15	20	30	45	60	80	100	120	150	180
Precipitation (inches)	0.18	0.26	0.32	0.38	0.42	0.51	0.67	0.78	0.83	0.87	0.96	1.03
Ending Date Time (yyyy-mm-dd hh:mi)	2019-01-19 17:21	2019-01-19 17:23	2019-01-19 17:21	2019-01-19 17:21	2019-01-19 17:23	2019-01-19 17:23	2019-01-19 17:23	2019-01-19 17:23	2019-01-19 17:42	2019-01-19 18:08	2019-01-19 18:34	2019-01-19 18:34

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