

**Local Climatological Data**  
**Daily Summary**  
**November 2018**  
 Generated on 12/05/2018

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	71	54	63	9.0				2	0	0659	1741	RA BR	0.29			28.84		3.5	20s	190s	9s	200s							
02	59	42	51	-2.7				14	0	0700	1740	T			28.84		2.8	17	250	10	270								
03	59	38	48	-5.3				17	0	0701	1739	FG BR	0.00		29.17		1.1	9	090	6	130								
04	64	37	51	-2.0				14	0	0702	1738	RA FG BR	0.26		29.26		0.0	*		*									
05	64	51	58	5.4				7	0	0703	1737	RA FG BR	0.10		29.10		0.9	10	250	7	260								
06	71*	46	59	6.7				6	0	0704	1736	RA BR	0.81		28.96		3.4	21	280	14	270								
07	67	43	55	3.1				10	0	0705	1736	FG BR	0.00s		29.15		0.0	*		*									
08	60	45	53	1.4				12	0	0706	1735	RA	0.02		29.17		1.7	13	070	8	070								
09	55	41	48	-3.2				17	0	0707	1734	RA BR	0.07		29.08		1.6	14	300	7	320								
10	46	30	38	-12.9				27	0	0708	1733		0.00		29.32		3.8	18	080	12	080								
11	53	27	40	-10.5				25	0	0709	1732		0.00		29.34		0.0	9	080	6	150								
12	46	39	43	-7.2				22	0	0710	1732	RA BR	0.88		29.23		0.8	12	070	8	070								
13	47	39	43	-6.8				22	0	0711	1731	RA BR	0.27		29.18		1.2	20	020	8	020								
14	42	39	41	-8.4				24	0	0712	1730	RA BR	0.40		29.33		5.3	15s	060s	10	070								
15	46	33	40	-9.1				25	0	0713	1729	RA BR	0.51		29.08		4.5	25	270	15	260								
16	51	31	41	-7.7				24	0	0714	1729		0.00		29.18		2.9	13	270	9	260								
17	59	31	45	-3.4				20	0	0715	1728	SN FG FZFG BR	0.00s		29.25		0.1	7	190	6	190								
18	60	32	46	-2.0				19	0	0716	1728	FG BR	0.00		29.26		0.9	11	170	8	180								
19	65	36	50	2.3				15	0	0717	1727	RA FG BR	T		29.13		3.4	20	220	10	270								
20	52	40	46	-1.3				19	0	0718	1727		0.00		29.18		3.2	14	320	9	330								
21	54	29	42	-5.0				23	0	0719	1726		0.00		29.33		0.4	9	150	7	080								
22	60	30	45	-1.6				20	0	0720	1726	FG FZFG BR	0.00		29.36		0.7	11	090	8	080								
23	50	33	42	-4.3				23	0	0721	1725	RA FG BR	0.07		29.23		0.3	9	080	7	070								
24	50	43	46	0.0				19	0	0722	1725	RA BR	0.43		28.91		2.5	14	250	9	220								
25	56	48	52	6.4				13	0	0723	1724		0.01		28.95		1.2	16	270	9	260								
26	52	35	44	-1.3				21	0	0724	1724	RA BR	0.09		28.85		7.8	32	250	20	260								
27	35	29	32	-13.0				33	0	0725	1724		0.00		29.02		7.3	22	250	14	270								
28	37	20*	29	-15.7				36	0	0726	1723		0.00		29.13		1.6	13	260	8	260								
29	38	24	31	-13.3				34	0	0727	1723	RA BR	0.25		29.14		0.8	7	220	6	190								
30										0728	1723	RA BR FG																	
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																	
Heating										>=90°		<=32°		<=32°		<=0°		>=0.01"		>=0.1"		>=1"		T-Storms		Heavy Fog			
Cooling																													
Date of 5-sec to 3-sec wind equipment change								Sea Level Pressure								Greatest...													
2007-03-22								Maximum				Date				Time			24-Hr...				Snow Depth						
								Minimum											Precip		Snowfall								
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 November 2018

Generated on 12/05/2018

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	0053	6	FEW:02 50	7.00		57	13.9	57	13.9	57	13.9	100	0	000		28.99	8	+0.05	29.93	FM-15	0.00	29.96
01	0153	7	CLR:00	6.00	BR:1	57	13.9	57	13.9	57	13.9	100	0	000		28.96			29.91	FM-15	0.00	29.93
01	0253	7	CLR:00	5.00	BR:1	57	13.9	57	13.9	57	13.9	100	0	000		28.94			29.88	FM-15	0.00	29.91
01	0353	7	CLR:00	4.00	BR:1	56	13.3	56	13.3	56	13.3	100	0	000		28.91	6	+0.07	29.86	FM-15	0.00	29.88
01	0453	7	CLR:00	6.00	BR:1	55	12.8	55	12.8	55	12.8	100	0	000		28.90			29.85	FM-15	0.00	29.87
01	0553	7	CLR:00	6.00	BR:1	55	12.8	55	12.8	55	12.8	100	0	000		28.88			29.84	FM-15	0.00	29.85
01	0653	7	CLR:00	6.00	BR:1	54	12.2	54	12.2	54	12.2	100	0	000		28.87	8	+0.04	29.82	FM-15	0.00	29.84
01	0753	7	FEW:02 50	10.00		62	16.7	59	15.1	57	13.9	84	3	190		28.86			29.81	FM-15	0.00	29.83
01	0853	7	CLR:00	10.00		67	19.4	62	16.8	59	15.0	76	7	VRB		28.85			29.80	FM-15	0.00	29.82
01	0953	7	SCT:04 90	10.00		70	21.1	63	17.4	59	15.0	68	8	VRB		28.84	8	+0.03	29.78	FM-15	0.00	29.81
01	1053	7	SCT:04 40 BKN:07 47 OVC:08 55	10.00		70	21.1	63	17.4	59	15.0	68	9	VRB		28.84			29.79	FM-15	0.00	29.81
01	1153	7	BKN:07 41 BKN:07 55 OVC:08 100	10.00	-RA:02  RA  RA	70	21.1	64	18.0	61	16.1	73	8	210		28.82			29.77	FM-15	T	29.79
01	1253	7	FEW:02 38 BKN:07 48 OVC:08 60	10.00	-RA:02  RA  RA	69	20.6	65	18.1	62	16.7	78	3	VRB		28.77	8	+0.06	29.72	FM-15	T	29.74
01	1328	7	SCT:04 45 BKN:07 60 OVC:08 80	2.50	RA:02 BR:1  RA  RA	65	18.3	64	18.0	64	17.8	97	0	000		28.77				FM-16	0.05	29.73
01	1337	7	BKN:07 40 BKN:07 50 OVC:08 80	3.00	RA:02 BR:1  RA  RA	64	17.8	63	17.4	63	17.2	96	5	190		28.76				FM-16	0.06	29.72
01	1348	7	SCT:04 34 BKN:07 42 OVC:08 50	2.00V	RA:02 BR:1  RA  RA	64	18.0	64	17.8	64	18.0	100	5	200		28.76				FM-16	0.10	29.72
01	1353	7	BKN:07 34 OVC:08 42	2.00	RA:02 BR:1  RA  RA	64	17.8	64	17.8	64	17.8	100	6	210		28.76			29.71	FM-15	0.13	29.72
01	1412	7	FEW:02 12 BKN:07 29 OVC:08 38	6.00	-RA:02 BR:1  RA  RA	64	17.8	64	17.8	64	17.8	100	3	VRB		28.76				FM-16	0.04	29.72
01	1431	6	SCT:04 15 SCT:04 30 OVC:08 100	7.00	-RA:02  RA  RA	64	17.8	64	17.8	64	17.8	100				28.73				FM-16		29.69
01	1453	6	OVC:08 100	10.00	-RA:02  RA  RA	64	17.8	63	17.4	63	17.2	96	9	150	21	28.68			29.63	FM-15	0.05	29.64
01	1523	7	BKN:07 14 BKN:07 20 OVC:08 110	10.00		64	17.8	63	17.4	63	17.2	96	8	210		28.71				FM-16	0.01	29.68
01	1540	7	SCT:04 14 BKN:07 21 OVC:08 26	10.00		64	17.8	64	17.8	64	17.8	100	5	210		28.71				FM-16	0.01	29.68
01	1553	6	SCT:04 22 BKN:07 26	10.00		64	17.8	64	17.8	64	17.8	100	3	VRB		28.71	5	+0.04	29.66	FM-15	T	29.67
01	1613	7	FEW:02 26 BKN:07 31	10.00		64	17.8	64	17.8	64	17.8	100	3	190		28.71				FM-16		29.67
01	1653	6	CLR:00	10.00		64	17.8	64	17.8	64	17.8	100	5	220		28.70			29.65	FM-15	0.00	29.66
01	1753	7	OVC:08 42	10.00		64	17.8	63	17.4	63	17.2	96	5	VRB		28.74			29.68	FM-15	0.00	29.70
01	1853	6	OVC:08 60	10.00		65	18.3	63	17.3	62	16.7	90	8	VRB	18	28.74	3	-0.03	29.69	FM-15	0.00	29.71

01	1953	6	SCT:04 22 SCT:04 50 OVC:08 65	10.00		65	18.3	63	17.3	62	16.7	90	8	VRB		28.76			29.70	FM-15	0.00	29.72
01	2053	7	FEW:02 21 OVC:08 50	10.00		65	18.3	63	17.0	61	16.1	87	7	190	20	28.76			29.69	FM-15	0.00	29.72
01	2153	7	FEW:02 21 OVC:08 47	10.00		65	18.3	63	17.0	61	16.1	87	7	VRB	17	28.76	1	-0.01	29.69	FM-15	0.00	29.72
01	2225	7	FEW:02 11 BKN:07 26 OVC:08 49	2.50V	RA:02 BR:1  RA  RA	63	17.2	62	16.9	62	16.7	97	8	VRB		28.77				FM-16	0.02	29.74
01	2242	7	FEW:02 15 SCT:04 25 OVC:08 36	4.00	-RA:02 BR:1  RA  RA	61	16.1	61	16.1	61	16.1	100	8	VRB		28.78				FM-16	0.09	29.75
01	2251	6	FEW:02 13 BKN:07 19 OVC:08 34	7.00	-RA:02  RA  RA	61	16.0	61	16.1	61	16.0	100	9	250		28.78				FM-16		29.75
01	2253	6	FEW:02 10 BKN:07 19 OVC:08 34	7.00	-RA:02  RA  RA	61	16.1	61	16.1	61	16.1	100	7	VRB		28.78			29.72	FM-15	0.10	29.75
01	2303	7	FEW:02 13 BKN:07 37 OVC:08 49	6.00	-RA:02 BR:1  RA  RA	61	16.1	60	15.8	60	15.6	97	11	270	20	28.78				FM-16	T	29.75
01	2353	6	SCT:04 38 OVC:08 49	10.00		59	15.0	58	14.4	57	13.9	93	6	VRB		28.78			29.73	FM-15	0.01	29.75

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**  
**November 2018**

Generated on 12/05/2018

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

Date	Time (LST)	Remarks
01	0053	MET11911/01/18 00:53:02 METAR KOQT 010553Z 00000KT 7SM FEW050 14/14 A2996 RMK AO2 SLP137 T01390139 10189 20139 58017 RTX FIBI
01	0153	MET09211/01/18 01:53:02 METAR KOQT 010653Z 00000KT 6SM BR CLR 14/14 A2993 RMK AO2 SLP129 T01390139
01	0253	MET09211/01/18 02:53:02 METAR KOQT 010753Z 00000KT 5SM BR CLR 14/14 A2991 RMK AO2 SLP120 T01390139
01	0353	MET09811/01/18 03:53:02 METAR KOQT 010853Z 00000KT 4SM BR CLR 13/13 A2988 RMK AO2 SLP112 T01330133 56024
01	0453	MET09211/01/18 04:53:02 METAR KOQT 010953Z 00000KT 6SM BR CLR 13/13 A2987 RMK AO2 SLP109 T01280128
01	0553	MET09211/01/18 05:53:02 METAR KOQT 011053Z 00000KT 6SM BR CLR 13/13 A2985 RMK AO2 SLP104 T01280128
01	0653	MET11011/01/18 06:53:02 METAR KOQT 011153Z 00000KT 6SM BR CLR 12/12 A2984 RMK AO2 SLP099 T01220122 10144 20122 58015
01	0753	MET09311/01/18 07:53:02 METAR KOQT 011253Z 19003KT 10SM FEW050 17/14 A2983 RMK AO2 SLP095 T01670139
01	0853	MET09011/01/18 08:53:02 METAR KOQT 011353Z VRB06KT 10SM CLR 19/15 A2982 RMK AO2 SLP090 T01940150
01	0953	MET09911/01/18 09:53:02 METAR KOQT 011453Z 20007KT 10SM SCT090 21/15 A2981 RMK AO2 SLP085 T02110150 58010
01	1053	MET10711/01/18 10:53:02 METAR KOQT 011553Z 20008KT 10SM SCT040 BKN047 OVC055 21/15 A2981 RMK AO2 SLP087 T02110150
01	1153	MET12311/01/18 11:53:02 METAR KOQT 011653Z 21007KT 10SM -RA BKN041 BKN055 OVC100 21/16 A2979 RMK AO2 RAB42 SLP080 P0000 T02110161
01	1253	MET15011/01/18 12:53:02 METAR KOQT 011753Z VRB03KT 10SM -RA FEW038 BKN048 OVC060 21/17 A2974 RMK AO2 RAE27B50 SLP065 P0000 60000 T02060167 10217 20122 58021
01	1328	MET11511/01/18 13:28:02 SPECI KOQT 011828Z 00000KT 2 1/2SM RA BR SCT045 BKN060 OVC080 18/18 A2973 RMK AO2 P0005 T01830178
01	1337	MET11111/01/18 13:37:02 SPECI KOQT 011837Z 19004KT 3SM RA BR BKN040 BKN050 OVC080 18/17 A2972 RMK AO2 P0006 T01780172
01	1348	MET10911/01/18 13:48:02 SPECI KOQT 011848Z 20004KT 2SM RA BR SCT034 BKN042 OVC050 18/18 A2972 RMK AO2 VIS 1V3 P0010
01	1353	MET11111/01/18 13:53:02 METAR KOQT 011853Z 21005KT 2SM RA BR BKN034 OVC042 18/18 A2972 RMK AO2 SLP060 P0011 T01780178
01	1412	MET11211/01/18 14:12:02 SPECI KOQT 011912Z VRB03KT 6SM -RA BR FEW012 BKN029 OVC038 18/18 A2972 RMK AO2 P0004 T01780178
01	1431	MET12511/01/18 14:31:02 SPECI KOQT 011931Z KT 7SM -RA SCT015 SCT030 OVC100 18/18 A2969 RMK AO2 PRESFR P0005 T01780178 RTX FIBI
01	1453	MET12211/01/18 14:53:02 METAR KOQT 011953Z 15008G18KT 10SM -RA OVC100 18/17 A2964 RMK AO2 PRESFR SLP033 P0006 T01780172 RTX FIBI
01	1523	MET11211/01/18 15:23:02 SPECI KOQT 012023Z 21007KT 10SM BKN014 BKN020 OVC110 18/17 A2968 RMK AO2 RAE22 P0001 T01780172
01	1540	MET12111/01/18 15:40:02 SPECI KOQT 012040Z 21004KT 10SM SCT014 BKN021 OVC026 18/18 A2968 RMK AO2 RAE22 P0001 T01780178 RTX FIBI
01	1553	MET13311/01/18 15:53:02 METAR KOQT 012053Z VRB03KT 10SM SCT022 BKN026 18/18 A2967 RMK AO2 RAE22 SLP043 P0001 60018 T01780178 55014 RTX FIBI
01	1613	MET10211/01/18 16:13:02 SPECI KOQT 012113Z 19003KT 10SM FEW026 BKN031 18/18 A2967 RMK AO2 T01780178 RTX FIBI
01	1653	MET09911/01/18 16:53:02 METAR KOQT 012153Z 22004KT 10SM CLR 18/18 A2966 RMK AO2 SLP039 T01780178 RTX FIBI
01	1753	MET09311/01/18 17:53:02 METAR KOQT 012253Z VRB04KT 10SM OVC042 18/17 A2970 RMK AO2 SLP051 T01780172
01	1853	MET12911/01/18 18:53:02 METAR KOQT 012353Z 20007G16KT 10SM OVC060 18/17 A2971 RMK AO2 SLP055 60018 T01830167 10206 20172 53011 RTX FIBI
01	1953	MET11611/01/18 19:53:03 METAR KOQT 020053Z 18007KT 10SM SCT022 SCT050 OVC065 18/17 A2972 RMK AO2 SLP057 T01830167 RTX FIBI
01	2053	MET10311/01/18 20:53:01 METAR KOQT 020153Z 19006G17KT 10SM FEW021 OVC050 18/16 A2972 RMK AO2 SLP054 T01830161
01	2153	MET10911/01/18 21:53:01 METAR KOQT 020253Z VRB06G15KT 10SM FEW021 OVC047 18/16 A2972 RMK AO2 SLP053 T01830161 51003
01	2225	MET12911/01/18 22:25:01 SPECI KOQT 020325Z 26007KT 2 1/2SM RA BR FEW011 BKN026 OVC049 17/17 A2974 RMK AO2 VIS 1V5 RAB16 P0002 T01720167
01	2242	MET11811/01/18 22:42:02 SPECI KOQT 020342Z 24007KT 4SM -RA BR FEW015 SCT025 OVC036 16/16 A2975 RMK AO2 RAB16 P0009 T01610161
01	2251	MET11011/01/18 22:51:03 SPECI KOQT 020351Z 25008KT 7SM -RA FEW013 BKN019 OVC034 16/16 A2975 RMK AO2 RAB16 P0010 FIBI
01	2253	MET13111/01/18 22:53:03 METAR KOQT 020353Z VRB06KT 7SM -RA FEW010 BKN019 OVC034 16/16 A2975 RMK AO2 RAB16 SLP066 P0010 T01610161 RTX FIBI
01	2303	MET11511/01/18 23:03:02 SPECI KOQT 020403Z 27010G17KT 6SM -RA BR FEW013 BKN037 OVC049 16/16 A2975 RMK AO2 P0000 T01610156
01	2353	MET13111/01/18 23:53:02 METAR KOQT 020453Z VRB05KT 10SM SCT038 OVC049 15/14 A2975 RMK AO2 RAE45 SLP067 P0001 T01500139 402170122 RTX FIBI

**Local Climatological Data**  
**Hourly Precipitation**  
**November 2018**

Generated on 12/05/2018

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												T	T	0.13	0.05	T							0.10	0.01	01		
02	T																								02		
03																									03		
04																				T	T	0.05s	0.16	0.05	04		
05	0.05	0.02	T	T																		0.03s	T		05		
06	T	0.02	0.01	0.22	0.53	0.02	0.01	T	T	T															06		
07															T	T			T						07		
08															T	T	0.01	T	T				T	T	0.01	08	
09	T					0.12	0.15	0.03	0.27	0.20	0.06	0.03	0.01	0.03	0.01	0.02	0.01	T							09		
10																										10	
11																										11	
12								0.01	0.02	0.06	0.12	0.14	0.18	0.15	0.14	0.05	0.01			T					12		
13	T	0.01	0.05	0.04	0.02	0.08	0.05	0.01		0.01	T														13		
14													T	0.01	T	T	T	0.01	0.06	0.08	0.04	0.05	0.10	0.05	14		
15	0.08	0.04	0.03	0.12	0.07	0.02	0.02	0.03	0.04	0.02	0.01	0.02	0.01	T											15		
16																									16		
17									T	T															17		
18																									18		
19																	T	T						T	19		
20																									20		
21																									21		
22																									22		
23																							0.03	0.01	0.03	T	23
24	0.03	0.17	0.18	0.01			0.03	0.01																		24	
25																										25	
26	T	0.01	0.05	T	0.03	T						T														26	
27																										27	
28																										28	
29												T	0.01		0.02	T	0.04	0.05	0.05	0.07	T	T	0.01	T	29		
30	T		T				T	0.10			T	0.12	0.02	0.01	0.02	0.01	T	T	0.01	T	0.01	0.03	0.18	0.21	0.07	30	

**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  
 \$ = Suspect  
 \* = Erroneous  
 blank = No precipitation observed  
 M = Missing