

Local Climatological Data
Daily Summary
September 2021
 Generated on 10/04/2021

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		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	67	75	-0.6				0	10	0608	1905	RA BR	0.02			28.76		2.2	17	310	9	300	
02	81	64	73	-2.4				0	8	0609	1903		0.00			29.02		2.1	17	090	9	080	
03	83	60	72	-3.2				0	7	0610	1902		0.00			29.11		1.3	12	270	8	260	
04	84	63	74	-0.9				0	9	0611	1901	FG BR	0.00			29.08		1.6	12	140	8	270	
05	78	64	71	-3.6				0	6	0612	1859	RA	0.03			29.00		1.0	11	320	7	330	
06	84	63	74	-0.3				0	9	0612	1858	BR	0.00			29.02		1.5	17	090	9	080	
07	86	62	74	-0.1				0	9	0613	1856		0.00			29.02		1.8	13	280	9	270	
08	89*	70	80	6.2				0	15	0614	1855	RA	0.02			28.93		2.1	15	300	9	290	
09	83	60	72	-1.5				0	7	0615	1853	FG BR	0.00			28.97		1.8	19	310	10	330	
10	81	55	68	-5.1				0	3	0615	1852		0.00			29.14		0.9	14	080	8	090	
11	82	57	70	-2.8				0	5	0616	1850	FG BR	0.00s			29.23		1.1	14	290	8	290	
12	85	60	73	0.5				0	8	0617	1849	BR	0.00			29.31		1.0	13	230	7	260	
13	86	63	75	2.9				0	10	0618	1847	FG BR	0.00			29.25		0.6	10	130	7	130	
14	88	65	77	5.2				0	12	0618	1846	FG BR	0.00			29.11		0.8	11	160	8	090	
15	84	68	76	4.6				0	11	0619	1845	RA BR	0.14			29.05		1.2	13	140	8	160	
16	86	67	77	5.9				0	12	0620	1843	RA FG BR	0.93			29.10		1.4	22	090	12	110	
17	85	67	76	5.3				0	11	0621	1842	RA FG BR	T			29.16		0.4	10	090	7	090	
18	75	70	73	2.7				0	8	0622	1840	RA FG BR	1.00			29.18		0.7	*		5	300	
19	81	70	76	6.0				0	11	0622	1839	RA BR	0.06			29.14		0.5	*		4	099	
20	74	67	71	1.4				0	6	0623	1837	RA BR	0.77			29.13			9	360	5	340	
21	78	66	72	2.8				0	7	0624	1836	RA BR	0.23			29.11		0.4	10	070	6	070	
22	71	57	64	-4.8				1	0	0625	1834	RA BR	0.61			28.99		2.9	20s	300s	13	280	
23	71	50	61	-7.4				4	0	0625	1833		0.00			29.08		1.5	16	260	8	300	
24	74	46*	60	-8.0				5	0	0626	1831	RA FG BR	0.00s			29.17		0.8	14	090	8	080	
25	75	49	62	-5.6				3	0	0627	1830	FG BR	0.00			29.15		0.9	11	260	7	290	
26	76	53	65	-2.3				0	0	0628	1828	FG BR	0.00s			29.18		0.7	10	200	6	140	
27	81	51	66	-0.9				0	1	0629	1827	BR	0.00					0.8	12	250	8	250	
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		>=0.01"		>=0.1"	>=1"		T-Storms	Heavy Fog		
Heating											>=90°		<=32°		<=32°		<=0°						
Cooling																							
Date of 5-sec to 3-sec wind equipment change							Sea Level Pressure										Greatest...						
N/A											Date		Time				24-Hr...			Snow Depth			
							Maximum								Precip			Snowfall					
							Minimum																Date
Station Augmentation																							
Name: N/A Lat: N/A Lon: N/A Elevation: N/A Distance: N/A Elements: N/A Equipment: N/A																							

Local Climatological Data
Hourly Observations
September 2021

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

Generated on 10/04/2021

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

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)											
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
01	0012	7	SCT:04 8 OVC:08 16	6.00	-RA:02 BR:1 RA RA	72	22.2	71	21.7	70	21.1	94	0	000		28.63				FM-16	0.01	29.59
01	0023	7	BKN:07 7 OVC:08 16	10.00		71	21.7	70	21.1	70	21.1	96	0	000		28.63				FM-16	0.01	29.59
01	0053	7	OVC:08 3	3.00	BR:1	71	21.7	70	21.1	70	21.1	96	3	240		28.64	5	+0.01	29.56	FM-15	0.01	29.60
01	0126	7	OVC:08 5	10.00		71	21.7	70	21.1	70	21.1	96	0	000		28.64				FM-16		29.60
01	0153	7	BKN:07 9 OVC:08 14	10.00		72	22.2	71	21.7	70	21.1	94	6	230		28.65			29.57	FM-15	0.00	29.61
01	0253	7	SCT:04 8 OVC:08 12	10.00		72	22.2	71	21.7	70	21.1	94	0	000		28.65			29.57	FM-15	0.00	29.61
01	0304	7	BKN:07 9 OVC:08 13	10.00		72	22.2	71	21.7	70	21.1	94	0	000		28.65				FM-16		29.61
01	0315	7	SCT:04 8 BKN:07 12 OVC:08 29	10.00		72	22.2	71	21.7	70	21.1	94	3	230		28.66				FM-16		29.62
01	0324	7	SCT:04 8 BKN:07 27	10.00		72	22.2	71	21.7	70	21.1	94	5	VRB		28.66				FM-16		29.62
01	0353	7	SCT:04 8 BKN:07 27 BKN:07 70	10.00		72	22.2	71	21.7	70	21.1	94	5	220		28.66	1	-0.02	29.58	FM-15	0.00	29.62
01	0409	7	BKN:07 8 BKN:07 55 OVC:08 85	10.00		72	22.2	71	21.7	70	21.1	94	0	000		28.66				FM-16		29.62
01	0418	7	SCT:04 8 BKN:07 13 OVC:08 70	10.00		72	22.2	71	21.7	70	21.1	94	3	VRB		28.67				FM-16		29.63
01	0433	7	BKN:07 8 BKN:07 13 OVC:08 75	10.00		72	22.2	71	21.7	70	21.1	94	3	VRB		28.67				FM-16		29.63
01	0445	7	SCT:04 7 BKN:07 30 OVC:08 60	10.00		72	22.2	71	21.7	70	21.1	94	3	VRB		28.67				FM-16		29.63
01	0453	7	SCT:04 7 BKN:07 30 OVC:08 60	10.00		72	22.2	71	21.7	70	21.1	94	3	VRB		28.67			29.59	FM-15	0.00	29.63
01	0553	7	SCT:04 34 BKN:07 42 BKN:07 60	10.00		71	21.7	70	21.1	69	20.6	94	3	VRB		28.70			29.62	FM-15	0.00	29.66
01	0653	6	FEW:02 16 BKN:07 45 OVC:08 60	10.00		71	21.7	70	21.1	69	20.6	94				28.73	3	-0.06	29.65	FM-15	0.01	29.69
01	0753	7	BKN:07 32 OVC:08 110	10.00		72	22.2	70	21.1	69	20.6	91	0	000		28.74			29.67	FM-15	T	29.71
01	0853	7	FEW:02 25 BKN:07 35 OVC:08 85	10.00		75	23.9	71	21.7	69	20.6	82	3	VRB		28.77			29.69	FM-15	0.00	29.73
01	0924	7	FEW:02 21 OVC:08 29	10.00		75	23.9	71	21.7	69	20.6	82	0	000		28.78				FM-16		29.75
01	0953	7	SCT:04 20 BKN:07 25 OVC:08 31	10.00		75	23.9	71	21.7	69	20.6	82	5	VRB		28.79	3	-0.07	29.72	FM-15	0.00	29.76
01	1041	7	FEW:02 20 SCT:04 25 OVC:08 34	10.00		77	25.0	71	21.7	68	20.0	74	5	VRB		28.80				FM-16		29.77

01	1053	7	FEW:02 22 OVC:08 36	10.00		78	25.6	71	21.7	67	19.4	69	3	VRB		28.80			29.72	FM-15	0.00	29.77
01	1111	7	BKN:07 27 OVC:08 37	10.00		78	25.6	71	21.7	67	19.4	69	6	VRB		28.81				FM-16		29.78
01	1121	7	SCT:04 28 OVC:08 39	10.00		78	25.6	71	21.7	67	19.4	69	5	VRB		28.81				FM-16		29.78
01	1153	7	OVC:08 35	10.00		78	25.6	70	21.1	65	18.3	64	5	VRB		28.81			29.74	FM-15	0.00	29.78
01	1253	7	BKN:07 35 OVC:08 41	10.00		80	26.7	71	21.7	66	18.9	62	3	VRB		28.82	1	-0.03	29.74	FM-15	0.00	29.79
01	1353	7	BKN:07 35 BKN:07 45 OVC:08 50	10.00		79	26.1	71	21.7	67	19.4	67	0	000		28.83			29.75	FM-15	0.00	29.80
01	1453	7	SCT:04 36 OVC:08 70	10.00		80	26.7	70	21.1	65	18.3	60	6	270		28.82			29.75	FM-15	0.00	29.79
01	1553	7	SCT:04 41 BKN:07 55 OVC:08 70	10.00		79	26.1	71	21.7	67	19.4	67	3	VRB		28.82	1	-0.01	29.75	FM-15	0.00	29.79
01	1653	7	SCT:04 39 OVC:08 75	10.00		77	25.0	70	21.1	67	19.4	71	0	000		28.84			29.76	FM-15	T	29.81
01	1753	7	SCT:04 75	10.00		77	25.0	70	21.1	67	19.4	71	0	000		28.84			29.77	FM-15	0.00	29.81
01	1853	7	CLR:00	10.00		74	23.3	69	20.6	67	19.4	79	0	000		28.86	3	-0.04	29.79	FM-15	0.00	29.83
01	1953	7	CLR:00	10.00		71	21.7	68	20.0	67	19.4	87	0	000		28.89			29.82	FM-15	0.00	29.86
01	2053	7	CLR:00	10.00		70	21.1	67	19.4	66	18.9	87	0	000		28.92			29.84	FM-15	0.00	29.89
01	2153	7	CLR:00	10.00		69	20.6	67	19.4	66	18.9	90	0	000		28.93	1	-0.06	29.86	FM-15	0.00	29.90
01	2253	7	CLR:00	10.00		68	20.0	67	19.4	66	18.9	93	0	000		28.93			29.85	FM-15	0.00	29.90
01	2353	7	CLR:00	9.00		67	19.4	66	18.9	65	18.3	93	0	000		28.94			29.87	FM-15	0.00	29.91

U.S. Department of Commerce
 National Oceanic & Atmospheric Administration
 National Environmental Satellite, Data, and Information Service

Local Climatological Data
Hourly Remarks
September 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 10/04/2021

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

Date	Time (LST)	Remarks
01	0012	MET10509/01/21 00:12:02 SPECI KOQT 010512Z 00000KT 6SM -RA BR SCT008 OVC016 22/21 A2959 RMK AO2 P0001 T02220211
01	0023	MET10509/01/21 00:23:02 SPECI KOQT 010523Z 00000KT 10SM BKN007 OVC016 22/21 A2959 RMK AO2 RAE20 P0001 T02170211
01	0053	MET13109/01/21 00:53:02 METAR KOQT 010553Z 24003KT 3SM BR OVC003 22/21 A2960 RMK AO2 RAE20 SLP010 P0002 60153 T02170211 10228 20217 55002
01	0126	MET09809/01/21 01:26:02 SPECI KOQT 010626Z 00000KT 10SM OVC005 22/21 A2960 RMK AO2 CIG 003V007 T02170211
01	0153	MET11209/01/21 01:53:02 METAR KOQT 010653Z 23005KT 10SM BKN009 OVC014 22/21 A2961 RMK AO2 CIG 006V011 SLP012 T02220211
01	0253	MET10009/01/21 02:53:02 METAR KOQT 010753Z 00000KT 10SM SCT008 OVC012 22/21 A2961 RMK AO2 SLP014 T02220211
01	0304	MET09309/01/21 03:04:02 SPECI KOQT 010804Z 00000KT 10SM BKN009 OVC013 22/21 A2961 RMK AO2 T02220211
01	0315	MET10009/01/21 03:15:02 SPECI KOQT 010815Z 23003KT 10SM SCT008 BKN012 OVC029 22/21 A2962 RMK AO2 T02220211
01	0324	MET09309/01/21 03:24:02 SPECI KOQT 010824Z VRB04KT 10SM SCT008 BKN027 22/21 A2962 RMK AO2 T02220211
01	0353	MET11309/01/21 03:53:02 METAR KOQT 010853Z 22004KT 10SM SCT008 BKN027 BKN070 22/21 A2962 RMK AO2 SLP016 T02220211 51007
01	0409	MET11209/01/21 04:09:02 SPECI KOQT 010909Z 00000KT 10SM BKN008 BKN055 OVC085 22/21 A2962 RMK AO2 CIG 006V013 T02220211
01	0418	MET10009/01/21 04:18:02 SPECI KOQT 010918Z VRB03KT 10SM SCT008 BKN013 OVC070 22/21 A2963 RMK AO2 T02220211
01	0433	MET11609/01/21 04:33:02 SPECI KOQT 010933Z VRB03KT 10SM BKN008 BKN013 OVC075 22/21 A2963 RMK AO2 CIG 004V010 T02220211 RTX
01	0445	MET10909/01/21 04:45:02 SPECI KOQT 010945Z VRB03KT 10SM SCT007 BKN030 OVC060 22/21 A2963 RMK AO2 T02220211 RTX FIBI
01	0453	MET11109/01/21 04:53:02 METAR KOQT 010953Z VRB03KT 10SM SCT007 BKN030 OVC060 22/21 A2963 RMK AO2 SLP022 T02220211 RTX
01	0553	MET11109/01/21 05:53:02 METAR KOQT 011053Z VRB03KT 10SM SCT034 BKN042 BKN060 22/21 A2966 RMK AO2 SLP031 T02170206 RTX
01	0653	MET16109/01/21 06:53:02 METAR KOQT 011153Z KT 10SM FEW016 BKN045 OVC060 22/21 A2969 RMK AO2 RAB13E38 SLP041 P0001 60001 70321 T02170206 10222 20217 53022 RTX FIBI
01	0753	MET12609/01/21 07:53:02 METAR KOQT 011253Z 00000KT 10SM BKN032 OVC110 22/21 A2971 RMK AO2 RAB1154E03 SLP047 P0000 T02220206 RTX FIBI
01	0853	MET10709/01/21 08:53:02 METAR KOQT 011353Z VRB03KT 10SM FEW025 BKN035 OVC085 24/21 A2973 RMK AO2 SLP053 T02390206
01	0924	MET09309/01/21 09:24:02 SPECI KOQT 011424Z 00000KT 10SM FEW021 OVC029 24/21 A2975 RMK AO2 T02390206
01	0953	MET11909/01/21 09:53:02 METAR KOQT 011453Z VRB04KT 10SM SCT020 BKN025 OVC031 24/21 A2976 RMK AO2 SLP064 60000 T02390206 53024
01	1041	MET10009/01/21 10:41:02 SPECI KOQT 011541Z VRB04KT 10SM FEW020 SCT025 OVC034 25/20 A2977 RMK AO2 T02500200
01	1053	MET10009/01/21 10:53:02 METAR KOQT 011553Z VRB03KT 10SM FEW022 OVC036 26/19 A2977 RMK AO2 SLP066 T02560194
01	1111	MET09309/01/21 11:11:02 SPECI KOQT 011611Z VRB05KT 10SM BKN027 OVC037 26/19 A2978 RMK AO2 T02560194
01	1121	MET09309/01/21 11:21:02 SPECI KOQT 011621Z VRB04KT 10SM SCT028 OVC039 26/19 A2978 RMK AO2 T02560194
01	1153	MET09309/01/21 11:53:02 METAR KOQT 011653Z VRB04KT 10SM OVC035 26/18 A2978 RMK AO2 SLP071 T02560183
01	1253	MET12409/01/21 12:53:02 METAR KOQT 011753Z VRB03KT 10SM BKN035 OVC041 27/19 A2979 RMK AO2 SLP071 60000 T02670189 10267 20217 51009
01	1353	MET10709/01/21 13:53:02 METAR KOQT 011853Z 00000KT 10SM BKN035 BKN045 OVC050 26/19 A2980 RMK AO2 SLP075 T02610194
01	1453	MET10009/01/21 14:53:02 METAR KOQT 011953Z 27005KT 10SM SCT036 OVC070 27/18 A2979 RMK AO2 SLP073 T02670183
01	1553	MET11309/01/21 15:53:02 METAR KOQT 012053Z VRB03KT 10SM SCT041 BKN055 OVC070 26/19 A2979 RMK AO2 SLP073 T02610194 51002
01	1653	MET11509/01/21 16:53:02 METAR KOQT 012153Z 00000KT 10SM SCT039 OVC075 25/19 A2981 RMK AO2 RAB34E49 SLP078 P0000 T02500194
01	1753	MET09309/01/21 17:53:02 METAR KOQT 012253Z 00000KT 10SM SCT075 25/19 A2981 RMK AO2 SLP081 T02500194
01	1853	MET11409/01/21 18:53:02 METAR KOQT 012353Z 00000KT 10SM CLR 23/19 A2983 RMK AO2 SLP088 60000 T02330194 10278 20233 53013
01	1953	MET09009/01/21 19:53:01 METAR KOQT 020053Z 00000KT 10SM CLR 22/19 A2986 RMK AO2 SLP098 T02170194
01	2053	MET09009/01/21 20:53:01 METAR KOQT 020153Z 00000KT 10SM CLR 21/19 A2989 RMK AO2 SLP106 T02110189
01	2153	MET09609/01/21 21:53:02 METAR KOQT 020253Z 00000KT 10SM CLR 21/19 A2990 RMK AO2 SLP112 T02060189 51022
01	2253	MET09009/01/21 22:53:02 METAR KOQT 020353Z 00000KT 10SM CLR 20/19 A2990 RMK AO2 SLP110 T02000189
01	2353	MET09909/01/21 23:53:02 METAR KOQT 020453Z 00000KT 9SM CLR 19/18 A2991 RMK AO2 SLP115 T01940183 402780194

Local Climatological Data
Hourly Precipitation
September 2021

Generated on 10/04/2021

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	0.01						0.01	T									T								01																																			
02																									02																																			
03																									03																																			
04																									04																																			
05																			T	0.03	T				05																																			
06																									06																																			
07																									07																																			
08																							0.02	T	08																																			
09																									09																																			
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11						T																			11																																			
12																									12																																			
13																									13																																			
14																									14																																			
15																			0.14	T					15																																			
16																			0.55s	0.38	T			T	16																																			
17				T	T	T	T	T																	17																																			
18											0.02	0.45	0.35	0.15	0.02	T	0.01								18																																			
19				T						T					T	T	0.05	0.01							19																																			
20				0.01s	T	T	0.01	0.02	T	0.01	0.02	0.03	0.01	0.04	0.02	0.02	0.07	0.24	0.06	0.06	0.11	0.04		T	20																																			
21	T			T	0.02	0.10	0.02	T	T	T	0.09														21																																			
22		T	T	0.10s	0.24	0.05		0.03	0.07	0.08	0.03	T		T			0.01						T		22																																			
23																									23																																			
24			T																						24																																			
25																									25																																			
26								T	T															M	M	26																																		
27	M	M	M	M	M	M	M																			27																																		
28	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	28																																		
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