

# Local Climatological Data Daily Summary May 2017

Elev: 910 ft. Lat: 36.0236° N Lon: -84.2375° W

Generated on 06/05/2017

Station: **OAK RIDGE ASOS, TN US WBAN:53868**

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	76	56	66	3.3				0	1	0545	1924	RA:16 BR:13				0.21			28.83		7.0	31	210	17	280
02	78	49	64	1.1				1	0	0544	1925					0.00			29.00		4.7	27	280	17	280
03	79	49	64	0.8				1	0	0542	1926					0.00			29.07		2.1	13	080	9	080
04	73	55	64	0.6				1	0	0541	1927	RA:16 BR:13				1.31			28.79		3.4	23	160	13	270
05	58	48	53	-10.7				12	0	0540	1927	RA:16 BR:13				0.18			28.56		4.6	24	320	16	340
06	54	44	49	-14.9				16	0	0539	1928	RA:16 BR:13				0.18			28.81		2.6	20	340	13	330
07	69	42*	56	-8.2				9	0	0538	1929	BR:13				0.00			29.01		2.8	16	330	12	330
08	77	43	60	-4.5				5	0	0537	1930					0.00			29.10		1.3	22	280	12	180
09	86	57	72	7.3				0	7	0537	1931					0.00s			29.03		4.7	23	250	14	240
10	86	57	72	7.0				0	7	0536	1932					0.00			29.05		2.6	18	250	10	180
11	82	64	73	7.7				0	8	0535	1932	RA:16 BR:13 HZ:08				0.28			28.97		3.0	20s	240s	12	260
12	74	63	68	2.4				0	3	0534	1933	RA:16 BR:13				0.18			28.85		2.1	15	250	9	260
13	76	54	65	-0.8				0	0	0533	1934					0.00			28.88		3.1	18	070	13	070
14	83	49	66	-0.1				0	1	0532	1935					0.00			29.02		1.9	16	160	12	160
15	86	55	70	3.6				0	5	0531	1936					0.00			29.05		1.2	12	140	9	160
16	89	59	74	7.3				0	9	0531	1937					0.00			29.08		2.3	17	190	10	190
17	90	62	76	9.0				0	11	0530	1937					0.00			29.06		3.1	20	220	12	260
18	89	71	80	12.8				0	15	0529	1938					T			29.08		3.9	19	220	12	260
19	88	69	78	10.5				0	13	0528	1939	RA:16 BR:13				0.35			29.10		2.0	15	210	8	240
20	90*	68	79	11.2				0	14	0528	1940	RA:16				T			29.10		2.7	36	220	17	210
21	78	67	72	3.9				0	7	0527	1940	RA:16				0.06			29.13		1.3	11	150	8	160
22	76	64	70	1.6				0	5	0526	1941	RA:16 BR:13				0.31			29.08		1.9	13	060	9	080
23	72	62	67	-1.7				0	2	0526	1942	RA:16 BR:13				0.14			28.83		0.5	8	280	5	140
24	73	55	64	-5.0				1	0	0525	1943	RA:16 BR:13				1.03			28.59		4.5	24	260	15	260
25	68	50	59	-10.3				6	0	0525	1943	RA:16				0.01			28.72		3.5	19	250	13	250
26	81	53	67	-2.6				0	2	0524	1944					0.00			29.00		2.7	19	170	10	190
27	83	64	74	4.1				0	9	0524	1945	RA:16 BR:13				0.49			29.00		3.2	24	310	14	300
28	79	63	71	0.8				0	6	0523	1946	RA:16				0.04			28.95		3.0	16	260	9	250
29	79	67	73	2.5				0	8	0523	1946	RA:16				0.01			29.03		2.4	13	190	9	190
30	83	64	74	3.2				0	9	0522	1947	RA:16				0.14			29.13		2.7	20	300	13	270
31	84	61	72	0.9				0	7	0522	1948					0.00			29.13		2.6	14	220	10	190
	78.7	57.5	68.1													4.92			28.97	29.91	2.9				
	0.4	2.3	1.3					Departure from Normal (1981-2010)						0.63											

Degree Days				Number of days with...										
Monthly		Season-to-date		Temperature				Precipitation	Snow	Weather				
Total	Departure	Total	Departure	Max		Min								
Heating	52	-7	2665	>=90°	<=32°	<=32°	<=0°	>=0.01"	>=0.1"	>=1"	T-Storms	Heavy Fog		
Cooling	154	41	225	2	0	0	0	16	12					
Date of 5-sec to 3-sec wind equipment change				Sea Level Pressure				Greatest...						
2007-03-22				Maximum		30.16	Date	08	Time		1120	24-Hr...		Snow Depth
				Minimum		29.40	Date	24	Time		1519	Precip	1.44s	
								Date						
								04-05						

**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

**Local Climatological Data**  
**Hourly Observations**  
**May 2017**

Elev: 910 ft. Lat: 36.0236° N Lon: -84.2375° W

Generated on 06/05/2017

Station: **OAK RIDGE ASOS, TN US WBAN:53868**

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)											
01	0053	7	SCT:04 85 OVC:08 110	8.00	-RA:02  RA:61	67	19.4	65	18.3	64	17.8	91	0	000		28.92	6	+0.08	29.84	FM-15	0.02	29.89
01	0153	7	BKN:07 110	10.00		67	19.4	65	18.3	64	17.8	91	0	000		28.89			29.81	FM-15	0.01	29.86
01	0253	7	CLR:00	10.00		67	19.4	65	18.3	64	17.8	91	3	280		28.87			29.79	FM-15	0.00	29.84
01	0353	7	SCT:04 100 BKN:07 110	10.00		66	18.9	64	17.7	63	17.2	90	3	220		28.86	6	+0.06	29.79	FM-15	0.00	29.83
01	0453	6	SCT:04 45 BKN:07 85 OVC:08 110	10.00	-RA:02  RA:61	66	18.9	64	17.7	63	17.2	90	5	VRB		28.87			29.80	FM-15	0.01	29.84
01	0503	7	FEW:02 8 BKN:07 45 OVC:08 85	5.00	-RA:02 BR:1  RA:61	66	18.9	64	17.7	63	17.2	90	5	VRB		28.86				FM-16	0.01	29.83
01	0553	7	FEW:02 55 BKN:07 80 OVC:08 100	10.00		66	18.9	64	17.7	63	17.2	90	0	000		28.82			29.75	FM-15	0.01	29.79
01	0653	7	SCT:04 39 BKN:07 50 BKN:07 100	10.00	-RA:02  RA:61	67	19.4	65	18.3	64	17.8	91	0	000		28.81	8	+0.05	29.74	FM-15	T	29.78
01	0753	7	FEW:02 26 BKN:07 31 OVC:08 90	10.00		71	21.7	66	19.1	64	17.8	79	7	VRB	17	28.79			29.73	FM-15	T	29.76
01	0829	7	SCT:04 27 BKN:07 48 OVC:08 75	1.75	+RA:02  RA:63	69	20.6	66	18.6	64	17.8	84	15	VRB	24	28.79				FM-16	0.02	29.76
01	0840	7	SCT:04 14 BKN:07 25 OVC:08 70	1.50V	RA:02 BR:1  RA:62	68	20.0	66	18.8	65	18.3	90	7	VRB	29	28.81				FM-16	0.08	29.78
01	0845	7	SCT:04 14 BKN:07 20 OVC:08 31	3.00	-RA:02 BR:1  RA:61	68	20.0	66	18.8	65	18.3	90	9	VRB	20	28.81				FM-16	0.09	29.78
01	0853	7	BKN:07 13 BKN:07 18 OVC:08 25	7.00	-RA:02  RA:61	68	20.0	66	18.8	65	18.3	90	7	VRB	17	28.81			29.75	FM-15	0.09	29.78
01	0900	7	SCT:04 11 OVC:08 16	6.00	-RA:02 BR:1  RA:61	68	20.0	65	18.4	64	17.8	87	8	220		28.81				FM-16	T	29.78
01	0953	7	FEW:02 29 OVC:08 44	10.00		64	17.8	59	14.8	55	12.8	73	7	210	23	28.84	3	-0.03	29.78	FM-15	T	29.81
01	1053	7	OVC:08 49	10.00		61	16.1	55	12.6	49	9.4	65	9	VRB	21	28.86			29.81	FM-15	0.02	29.83
01	1103	7	FEW:02 36 OVC:08 48	1.50	+RA:02  RA:63	59	15.0	54	12.0	49	9.4	69	8	VRB		28.87				FM-16	T	29.84
01	1113	7	FEW:02 41 OVC:08 50	3.00	-RA:02  RA:61	57	13.9	53	11.7	50	10.0	78	6	VRB	18	28.86				FM-16	0.05	29.83
01	1153	7	FEW:02 55 SCT:04 70 OVC:08 95	10.00	-RA:02  RA:61	58	14.4	54	12.2	51	10.6	78	5	VRB		28.86			29.81	FM-15	0.05	29.83
01	1253	7	CLR:00	10.00		66	18.9	58	14.4	49	9.4	54	13	210	28	28.83	8	+0.01	29.77	FM-15	0.00	29.80
01	1353	7	CLR:00	10.00		71	21.7	61	16.3	47	8.3	42	13	VRB	26	28.79			29.73	FM-15	0.00	29.76
01	1453	7	CLR:00	10.00		73	22.8	63	17.2	47	8.3	40	10	VRB	28	28.77			29.70	FM-15	0.00	29.74
01	1553	7	CLR:00	10.00		74	23.3	64	17.7	48	8.9	40	10	210	25	28.76	6	+0.07	29.68	FM-15	0.00	29.72
01	1653	7	CLR:00	10.00		75	23.9	65	18.5	42	5.6	31	9	VRB	30	28.77			29.70	FM-15	0.00	29.73
01	1753	7	CLR:00	10.00		74	23.3	64	18.0	41	5.0	31	10	VRB	22	28.77			29.71	FM-15	0.00	29.74
01	1853	7	CLR:00	10.00		72	22.2	62	16.9	41	5.0	33	13	VRB	20	28.78	1	-0.03	29.71	FM-15	0.00	29.75
01	1953	7	CLR:00	10.00		69	20.6	60	15.3	40	4.4	35	7	VRB	23	28.82			29.75	FM-15	0.00	29.79

01	2053	7	CLR:00	10.00		66	18.9	57	13.8	41	5.0	40	11	260	24	28.87			29.81	FM-15	0.00	29.84
01	2153	7	SCT:04 60	10.00		62	16.7	54	12.0	41	5.0	46	13	VRB	30	28.95	3	-0.17	29.90	FM-15	0.00	29.92
01	2253	7	SCT:04 60	10.00		60	15.6	52	11.0	39	3.9	46	5	VRB		28.95			29.90	FM-15	0.00	29.92
01	2353	7	OVC:08 60	10.00		60	15.6	52	11.0	39	3.9	46	0	000		28.95			29.91	FM-15	0.00	29.92

U.S. Department of Commerce  
National Oceanic & Atmospheric Administration  
National Environmental Satellite, Data, and Information Service  
Elev: 910 ft. Lat: 36.0236° N Lon: -84.2375° W  
Station: **OAK RIDGE ASOS, TN US WBAN:53868**

## Local Climatological Data Hourly Remarks May 2017

Generated on 06/05/2017

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

Date	Time (LST)	Remarks
01	0053	MET13305/01/17 00:53:02 METAR KOQT 010553Z 00000KT 8SM -RA SCT085 OVC110 19/18 A2989 RMK AO2 SLP106 P0001 60005 T01940178 10272 20189 56027
01	0153	MET10505/01/17 01:53:02 METAR KOQT 010653Z 00000KT 10SM BKN110 19/18 A2986 RMK AO2 RAE24 SLP096 P0002 T01940178
01	0253	MET09005/01/17 02:53:02 METAR KOQT 010753Z 28003KT 10SM CLR 19/18 A2984 RMK AO2 SLP088 T01940178
01	0353	MET11205/01/17 03:53:02 METAR KOQT 010853Z 22003KT 10SM SCT100 BKN110 19/17 A2983 RMK AO2 SLP087 60002 T01890172 56019
01	0453	MET13205/01/17 04:53:02 METAR KOQT 010953Z VRB04KT 10SM -RA SCT045 BKN085 OVC110 19/17 A2984 RMK AO2 RAB53 SLP090 P0000 T01890172 RTX FIBI
01	0503	MET11205/01/17 05:03:02 SPECI KOQT 011003Z VRB04KT 5SM -RA BR FEW008 BKN045 OVC085 19/17 A2983 RMK AO2 P0001 T01890172
01	0553	MET12305/01/17 05:53:02 METAR KOQT 011053Z 00000KT 10SM FEW055 BKN080 OVC100 19/17 A2979 RMK AO2 RAE38 SLP075 P0002 T01890172 RTX
01	0653	MET15305/01/17 06:53:02 METAR KOQT 011153Z 00000KT 10SM -RA SCT039 BKN050 BKN100 19/18 A2978 RMK AO2 RAB35 SLP070 P0000 60004 70009 T01940178 10194 20189 58018
01	0753	MET12605/01/17 07:53:02 METAR KOQT 011253Z VRB06G15KT 10SM FEW026 BKN031 OVC090 22/18 A2976 RMK AO2 RAE23 SLP067 P0000 T02170178 RTX
01	0829	MET12205/01/17 08:29:02 SPECI KOQT 011329Z 20013G21KT 1 3/4SM +RA SCT027 BKN048 OVC075 21/18 A2976 RMK AO2 RAB01 P0002 T02060178
01	0840	MET13205/01/17 08:40:02 SPECI KOQT 011340Z VRB06G25KT 1 1/2SM RA BR SCT014 BKN025 OVC070 20/18 A2978 RMK AO2 VIS 1V3 RAB01 P0008 T02000183
01	0845	MET12105/01/17 08:45:02 SPECI KOQT 011345Z 21008G17KT 3SM -RA BR SCT014 BKN020 OVC031 20/18 A2978 RMK AO2 RAB01 P0009 T02000183
01	0853	MET12505/01/17 08:53:02 METAR KOQT 011353Z VRB06G15KT 7SM -RA BKN013 BKN018 OVC025 20/18 A2978 RMK AO2 RAB01 SLP074 P0009 T02000183
01	0900	MET10505/01/17 09:00:02 SPECI KOQT 011400Z 22007KT 6SM -RA BR SCT011 OVC016 20/18 A2978 RMK AO2 P0000 T02000178
01	0953	MET12705/01/17 09:53:02 METAR KOQT 011453Z 21006G20KT 10SM FEW029 OVC044 18/13 A2981 RMK AO2 RAE29 SLP084 P0000 60009 T01780128 53009
01	1053	MET11105/01/17 10:53:02 METAR KOQT 011553Z 21008G18KT 10SM OVC049 16/09 A2983 RMK AO2 RAB11E44 SLP095 P0002 T01610094
01	1103	MET11205/01/17 11:03:02 SPECI KOQT 011603Z 22007KT 1 1/2SM +RA FEW036 OVC048 15/09 A2984 RMK AO2 RAB00 P0000 T01500094
01	1113	MET11105/01/17 11:13:02 SPECI KOQT 011613Z VRB05G16KT 3SM -RA FEW041 OVC050 14/10 A2983 RMK AO2 RAB00 P0005 T01390100
01	1153	MET12905/01/17 11:53:02 METAR KOQT 011653Z VRB04KT 10SM -RA FEW055 SCT070 OVC095 14/11 A2983 RMK AO2 RAB00E18B34 SLP094 P0005 T01440106
01	1253	MET13105/01/17 12:53:02 METAR KOQT 011753Z 21011G24KT 10SM CLR 19/09 A2980 RMK AO2 RAE1654 SLP080 P0000 60016 T01890094 10217 20133 58004
01	1353	MET11105/01/17 13:53:02 METAR KOQT 011853Z 20011G23KT 10SM CLR 22/08 A2976 RMK AO2 PK WND 21027/1827 SLP067 T02170083
01	1453	MET09305/01/17 14:53:02 METAR KOQT 011953Z 21009G24KT 10SM CLR 23/08 A2974 RMK AO2 SLP058 T02280083
01	1553	MET09905/01/17 15:53:02 METAR KOQT 012053Z 21009G22KT 10SM CLR 23/09 A2972 RMK AO2 SLP052 T02330089 56025
01	1653	MET11505/01/17 16:53:02 METAR KOQT 012153Z 22008G26KT 10SM CLR 24/06 A2973 RMK AO2 PK WND 23027/2132 SLP057 T02390056 RTX
01	1753	MET11505/01/17 17:53:02 METAR KOQT 012253Z 21009G19KT 10SM CLR 23/05 A2974 RMK AO2 PK WND 21027/2222 SLP060 T02330050 RTX
01	1853	MET11505/01/17 18:53:02 METAR KOQT 012353Z 21011G17KT 10SM CLR 22/05 A2975 RMK AO2 SLP062 T02220050 10244 20189 51009 RTX
01	1953	MET09305/01/17 19:53:01 METAR KOQT 020053Z VRB06G20KT 10SM CLR 21/04 A2979 RMK AO2 SLP076 T02060044
01	2053	MET09305/01/17 20:53:01 METAR KOQT 020153Z 26010G21KT 10SM CLR 19/05 A2984 RMK AO2 SLP096 T01890050
01	2153	MET12005/01/17 21:53:01 METAR KOQT 020253Z 24011G26KT 10SM SCT060 17/05 A2992 RMK AO2 PK WND 26026/0252 SLP125 T01670050 53056
01	2253	MET09305/01/17 22:53:01 METAR KOQT 020353Z VRB04KT 10SM SCT060 16/04 A2992 RMK AO2 SLP126 T01560039
01	2353	MET10305/01/17 23:53:01 METAR KOQT 020453Z 00000KT 10SM OVC060 16/04 A2992 RMK AO2 SLP128 T01560039 402440133

**Local Climatological Data**  
**Hourly Precipitation**  
**May 2017**

Elev: 910 ft. Lat: 36.0236° N Lon: -84.2375° W

Generated on 06/05/2017

Station: **OAK RIDGE ASOS, TN US WBAN:53868**

Date	For Hour (LST) Ending at																							
	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	0.01			0.01	0.01	T	T	0.09	T	0.02	0.05												
02																								
03																								
04					T	T	T				T	0.01	T		T	T	0.03	0.32	0.32	0.04	T	0.35	0.16	0.08
05	T					0.01	0.01	T		T	T		T	T	0.11	0.01	0.01	0.01	T	T	0.02	T	T	T
06	T	T	T							T	0.01	T	0.12s	0.04	0.01	T								
07																								
08																								
09					T																			
10																								
11							T	T														T		0.28
12	T		T	0.11s	0.05	T										T	T	0.02	T	T	T			
13																								
14																								
15																								
16																								
17																								
18																								
19	0.35s	T									T													
20																								
21			T	0.02				0.01	T	0.02	0.01												T	T
22		0.31	T																					
23	T	T			T	T					0.01	0.02	0.04	0.02	0.01							T	0.04	T
24	0.03	T								0.15	0.43s	0.36	0.01	T		0.05								
25										T	0.01	T	T											
26																								
27																		T	T	T		0.40s	0.09	T
28	T				T	T		T	T						0.04									
29													T	0.01				T						
30														T	T	T	0.13	0.01						
31																								

**Maximum Short Duration Precipitation**

Time Period (Minutes)	5	10	15	20	30	45	60	80	100	120	150	180
Precipitation (inches)	0.27	0.42	0.45	0.46	0.51	0.56	0.62	0.69	0.82	0.90	0.94	0.95
Ending Date Time (yyyy-mm-dd hh:mi)	2017-05-27 21:21	2017-05-24 10:03	2017-05-24 10:04	2017-05-24 10:08	2017-05-24 10:04	2017-05-24 10:36	2017-05-24 10:36	2017-05-24 10:26	2017-05-24 10:19	2017-05-24 10:36	2017-05-24 10:57	2017-05-24 11:12

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 = 0.00  
 M = No precipitation recorded