

Local Climatological Data Daily Summary December 2017

Generated on 04/11/2018

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		Weather Type	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	46	54	9.7	90	50	51	11	0	0727	1722	BR	0.00	0.0	0	29.10	30.15	3.0	15	340	12	360		
02	64	45	54	10.0	88	49	50	11	0	0728	1722	BR	0.00	0.0	0	29.09	30.14	1.6	12	220	9	240		
03	63	36	50	6.3	76	45	49	15	0	0729	1722	BR FG	0.00	0.0	0	29.14	30.19	2.7	13	040	12	040		
04	66	35	50	6.6	75	42	46	15	0	0730	1722		0.00	0.0	0	29.13	30.18	2.8	12	230	12	240		
05	62	42	52	8.9	90	50	52	13	0	0731	1722	RA BR	0.84	0.0	0	29.04	30.08	7.1	25	210	21	280		
06	44	34	39	-3.8	64	27	34	26	0	0732	1722		0.00	0.0	0	29.14	30.20	3.8	17	360	14	350		
07	48	34	41	-1.5	75	32	37	24	0	0733	1722		0.00	0.0	0	29.09	30.15	3.9	14	230	13	220		
08	37	30	34	-8.3	85	30	33	31	0	0733	1722	SN BR	0.05	0.6	T	29.01	30.06	5.1	14	360	12	360		
09	40	29	34	-8.0	78	27	31	31	0	0734	1722	SN BR	0.03	0.3	T	28.89	29.97	10.1	32	300	24	290		
10	41	24	32	-9.8	62	22	30	33	0	0735	1722		0.00	0.0	0	29.11	30.21	9.9	23	230	20	220		
11	56	29	42	0.5	63	31	38	23	0	0736	1723		0.00	0.0	0	29.02	30.04	9.5	27	220	21	220		
12	48	29	38	-3.3	61	27	35	27	0	0736	1723		T	0.0	0	28.84	29.92	13.3	35	270	29	270		
13	47	21	34	-7.0	44	14	28	31	0	0737	1723		0.00	0.0	0	28.87	29.92	10.6	31	230	25	230		
14	49	32	40	-0.8	64	29	36	25	0	0738	1723		0.00	0.0	0	28.82	29.91	8.6	27	210	22	210		
15	36	26	31	-9.6	86	27	29	34	0	0739	1724		0.00	0.0	0	29.02	30.11	5.7	17	270	14	270		
16	48	21	34	-6.4	78	27	31	31	0	0739	1724	BR	0.00	0.0	0	29.18	30.26	3.1	18	220	15	220		
17	42	27	34	-6.2	94	35	36	31	0	0740	1724	RA BR	0.03	0.0	0	29.15	30.21	3.0	12	150	10	150		
18	55	38	46	6.0	96	45	45	19	0	0741	1725	RA DZ BR FG	0.02	0.0	0	29.11	30.11	3.9	18	230	15	220		
19	60	37	48	8.1	86	46	48	17	0	0741	1725	RA FG BR	0.32	0.0	0	29.06	30.03	6.4	23	240	20	240		
20	57	46	52	12.3	100	51	51	13	0	0742	1725	RA BR FG	1.41	0.0	0	28.88	29.94	7.7	24	040	20	040		
21	59	49	54	14.5	97	50	51	11	0	0742	1726	RA BR	0.07	0.0	0	28.95	30.03	3.2	18	260	15	250		
22	56	42	49	9.6	97	49	49	16	0	0743	1726	RA BR	0.14	0.0	0	29.04	30.09	2.6	14	230	12	240		
23	67*	44	56	16.8	90	53	54	9	0	0743	1727	RA BR FG	0.47	0.0	0	28.87	29.93	15.1	43	200	33	200		
24	47	35	41	1.9	94	41	42	24	0	0744	1728	RA SN BR	T	T	0	29.01	30.06	11.5	37	260	29	260		
25	35	26	30	-9.0	63	18	25	35	0	0744	1728	SN	T	T	0	29.31	30.40	7.6	32	270	24	270		
26	41	27	34	-4.9	62	21	28	31	0	0744	1729		0.00	0.0	0	29.35	30.43	6.5	17	050	12	060		
27	40	22	31	-7.7	74	22	27	34	0	0745	1729		0.00	0.0	0	29.40	30.48	8.5	22	360	18	360		
28	38	18	28	-10.6	70	18	24	37	0	0745	1730		0.00	0.0	0	29.36	30.45	6.4	18	030	14	020		
29	44	29	36	-2.5	62	22	30	29	0	0745	1731		0.00	0.0	0	29.23	30.30	4.3	14	360	9	300		
30	39	29	34	-4.5	71	26	31	31	0	0746	1731		0.00	0.0	0	29.10	30.17	6.3	20	360	15	360		
31	30	17*	24	-14.4	63	13	21	41	0	0746	1732		0.00	0.0	0	29.18	30.30	9.7	21	360	17	360		
Monthly Averages Totals													3.38	0.9		29.08	30.14	6.5						
Departure from Normal (1981-2010)													-1.12											

Degree Days				Number of days with...												
Monthly		Season-to-date		Temperature				Precipitation		Snow	Weather					
Total	Departure	Total	Departure	Max		Min										
Heating	753	1	1383	>=90°	<=32°	<=32°	<=0°	>=0.01"	>=0.1"	>=1"	T-Storms	Heavy Fog				
Cooling	0	0	1516	0	1	17	0	10	5	0						
Date of 5-sec to 3-sec wind equipment change				Sea Level Pressure				Greatest...								
2007-04-17				Maximum		30.56		Date	27		Time		2030			
				Minimum		29.72			13				24-Hr...		Snow Depth	
										1850		1.71		0.6		0
										19-20		08-08		09		
Station Augmentation																
Name:CONTRACTOR ON AIRPORT Lat: N/A Lon: N/A Elevation: N/A Distance: 2200ft W Elements: TEMP, PRECIP, SNOW Equipment: SRG, PSY, SNOWBOARD, SNOWSTICK																

U.S. Department of Commerce
National Oceanic & Atmospheric Administration
National Environmental Satellite, Data, and Information Service
Current Location: Elev: 962 ft. Lat: 35.8181° N Lon: -83.9858° W
Station: KNOXVILLE AIRPORT, TN US 13891

Local Climatological Data Hourly Observations December 2017

Generated on 04/11/2018

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	0024	7	FEW:02 12 OVC:08 19	5.00	BR:1	51	10.6	51	10.6	51	10.6	100	0	000		29.08				FM-16		30.13
01	0053	7	BKN:07 16 BKN:07 75	4.00	BR:1	51	10.6	51	10.6	51	10.6	100	0	000		29.09	1	-0.02	30.13	FM-15	0.00	30.14
01	0100	4	15	3.73		51	10.6	51	10.6	51	10.6	100	0	000		29.08	1	-0.02	30.13	FM-12		30.14
01	0153	7	OVC:08 24	3.00	BR:1	52	11.1	52	11.1	52	11.1	100	0	000		29.09			30.13	FM-15	0.00	30.14
01	0253	7	SCT:04 16 OVC:08 23	3.00	BR:1	52	11.1	52	11.1	52	11.1	100	3	320		29.09			30.13	FM-15	0.00	30.14
01	0343	7	BKN:07 14 OVC:08 22	3.00	BR:1	51	10.6	51	10.6	51	10.6	100	0	000		29.08				FM-16		30.13
01	0353	7	BKN:07 14 OVC:08 24	3.00	BR:1	52	11.1	52	11.1	52	11.1	100	5	010		29.08	8	+0.01	30.12	FM-15	0.00	30.13
01	0400	4	15	2.98		52	11.1	52	11.1	52	11.1	100	5	010		29.07	8	+0.01	30.12	FM-12		30.13
01	0422	7	BKN:07 16 OVC:08 27	6.00	BR:1	52	11.1	52	11.1	52	11.1	100	8	360		29.07				FM-16		30.12
01	0453	7	SCT:04 17 OVC:08 30	8.00		52	11.1	52	11.1	52	11.1	100	9	350		29.08			30.12	FM-15	0.00	30.13
01	0553	7	FEW:02 19 OVC:08 30	10.00		51	10.6	50	10.0	49	9.4	92	8	010		29.09			30.14	FM-15	0.00	30.14
01	0653	7	FEW:02 19 OVC:08 31	10.00		50	10.0	49	9.7	49	9.4	96	7	020		29.12	3	-0.04	30.17	FM-15	0.00	30.17
01	0700	4	15	9.94		50	10.0	49	9.7	49	9.4	96	7	020		29.10	3	-0.04	30.17	FM-12		30.17
01	0707	7	BKN:07 18 OVC:08 31	10.00		50	10.0	49	9.7	49	9.4	96	5	030		29.12				FM-16		30.17
01	0753	7	OVC:08 16	9.00		50	10.0	49	9.7	49	9.4	96	3	050		29.12			30.17	FM-15	0.00	30.17
01	0853	7	OVC:08 17	10.00		51	10.6	50	10.0	49	9.4	92	6	010		29.14			30.18	FM-15	0.00	30.19
01	0953	7	BKN:07 16	10.00		52	11.1	50	10.2	49	9.4	89	7	010		29.15	3	-0.03	30.19	FM-15	0.00	30.20
01	1000	4	15	9.94		52	11.1	50	10.2	49	9.4	89	7	010		29.13	3	-0.03	30.19	FM-12		30.20
01	1021	7	SCT:04 16 BKN:07 25	10.00		53	11.7	51	10.5	49	9.4	86	7	020		29.15				FM-16		30.21
01	1053	7	FEW:02 17 BKN:07 25	10.00		54	12.2	52	11.0	50	10.0	87	8	060		29.15			30.20	FM-15	0.00	30.21
01	1121	7	SCT:04 25	10.00		54	12.2	52	11.0	50	10.0	87	8	050		29.15				FM-16		30.20
01	1153	7	SCT:04 25	10.00		57	13.9	54	12.1	51	10.6	81	6	040		29.14			30.18	FM-15	0.00	30.19
01	1219	7	BKN:07 25	10.00		57	13.9	54	12.1	51	10.6	81	6	VRB		29.14				FM-16		30.19
01	1253	7	OVC:08 25	10.00		57	13.9	54	12.1	51	10.6	81	6	040		29.13	8	+0.02	30.17	FM-15	0.00	30.18
01	1300	4	26	9.94		57	13.9	54	12.1	51	10.6	81	6	040		29.12	8	+0.02	30.17	FM-12		30.18
01	1353	7	BKN:07 25	10.00		58	14.4	54	12.3	51	10.6	78	0	000		29.10			30.15	FM-15	0.00	30.15
01	1418	7	SCT:04 25	10.00		59	15.0	55	12.6	51	10.6	75	3	070		29.10				FM-16		30.15
01	1453	7	SCT:04 25	10.00		60	15.6	55	12.5	50	10.0	70	0	000		29.09			30.13	FM-15	0.00	30.14
01	1553	7	SCT:04 25 SCT:04 250	10.00		60	15.6	55	12.5	50	10.0	70	0	000		29.09	6	+0.04	30.13	FM-15	0.00	30.14
01	1600	4	26	9.94		60	15.6	55	12.5	50	10.0	70	0	000		29.08	6	+0.04	30.13	FM-12		30.14
01	1653	7	FEW:02 25 FEW:02 250	10.00		58	14.4	54	12.0	50	10.0	75	0	000		29.09			30.13	FM-15	0.00	30.14
01	1753	7	SCT:04 250	10.00		56	13.3	53	11.6	50	10.0	81	0	000		29.09			30.14	FM-15	0.00	30.14
01	1853	7	SCT:04 250	10.00		53	11.7	51	10.5	49	9.4	86	0	000		29.10	3	-0.01	30.15	FM-15	0.00	30.15
01	1900	4		9.94		53	11.7	51	10.5	49	9.4	86	0	000		29.09	3	-0.01	30.15	FM-12		30.15
01	1953	7	FEW:02 50 BKN:07 250	10.00		52	11.1	50	10.2	49	9.4	89	3	300		29.11			30.15	FM-15	0.00	30.16

01	2053	7	FEW:02 55 BKN:07 250	10.00		49	9.4	49	9.4	49	9.4	100	0	000		29.11			30.16	FM-15	0.00	30.16
01	2153	7	OVC:08 250	8.00		49	9.4	49	9.4	49	9.4	100	0	000		29.11	0	-0.00	30.15	FM-15	0.00	30.16
01	2200	4		7.46		49	9.4	49	9.4	49	9.4	100	0	000		29.10	9	0.00	30.15	FM-12		30.16
01	2253	7	OVC:08 50	8.00		48	8.9	48	8.9	48	8.9	100	0	000		29.11			30.15	FM-15	0.00	30.16
01	2353	7	FEW:02 50 BKN:07 130 OVC:08 250	7.00		46	7.8	46	7.8	46	7.8	100	0	000		29.11			30.15	FM-15	0.00	30.16

U.S. Department of Commerce
National Oceanic & Atmospheric Administration
National Environmental Satellite, Data, and Information Service
Current Location: Elev: 962 ft. Lat: 35.8181° N Lon: -83.9858° W
Station: **KNOXVILLE AIRPORT, TN US 13891**

Local Climatological Data Hourly Remarks December 2017

Generated on 04/11/2018

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

Date	Time (LST)	Remarks
01	0024	MET10112/01/17 00:24:02 SPECI KTYS 010524Z 00000KT 5SM BR FEW012 OVC019 11/11 A3013 RMK AO2 T01060106 (JTD)
01	0053	MET13212/01/17 00:53:02 METAR KTYS 010553Z 00000KT 4SM BR BKN016 BKN075 11/11 A3014 RMK AO2 SLP203 60000 T01060106 10122 20100 51007 (JTD)
01	0100	SYN09272326 11456 60000 10106 20106 39846 40203 51007 69901 710// 90553 333 10144 20039 555 90106=
01	0153	MET10112/01/17 01:53:02 METAR KTYS 010653Z 00000KT 3SM BR OVC024 11/11 A3014 RMK AO2 SLP204 T01110111 (JTD)
01	0253	MET10812/01/17 02:53:02 METAR KTYS 010753Z 32003KT 3SM BR SCT016 OVC023 11/11 A3014 RMK AO2 SLP204 T01110111 (JTD)
01	0343	MET10112/01/17 03:43:02 SPECI KTYS 010843Z 00000KT 3SM BR BKN014 OVC022 11/11 A3013 RMK AO2 T01060106 (JTD)
01	0353	MET11412/01/17 03:53:02 METAR KTYS 010853Z 01004KT 3SM BR BKN014 OVC024 11/11 A3013 RMK AO2 SLP201 T01110111 58002 (JTD)
01	0400	SYN07072326 31448 80104 10111 20111 39843 40201 58002 710// 90853 555 90109=
01	0422	MET10112/01/17 04:22:02 SPECI KTYS 010922Z 36007KT 6SM BR BKN016 OVC027 11/11 A3012 RMK AO2 T01110111 (JTD)
01	0453	MET10512/01/17 04:53:02 METAR KTYS 010953Z 35008KT 8SM SCT017 OVC030 11/11 A3013 RMK AO2 SLP201 T01110111 (JTD)
01	0553	MET10612/01/17 05:53:02 METAR KTYS 011053Z 01007KT 10SM FEW019 OVC030 11/09 A3014 RMK AO2 SLP205 T01060094 (JTD)
01	0653	MET13012/01/17 06:53:02 METAR KTYS 011153Z 02006KT 10SM FEW019 OVC031 10/09 A3017 RMK AO2 SLP216 70003 T01000094 10117 20100 53014 (JTD)
01	0700	SYN08672326 32466 80206 10100 20094 39856 40216 53014 91153 333 10156 20100 70008 555 90112=
01	0707	MET09912/01/17 07:07:02 SPECI KTYS 011207Z 03004KT 10SM BKN018 OVC031 10/09 A3017 RMK AO2 T01000094 (JTD)
01	0753	MET09812/01/17 07:53:02 METAR KTYS 011253Z 05003KT 9SM OVC016 10/09 A3017 RMK AO2 SLP216 T01000094 (JTD)
01	0853	MET09812/01/17 08:53:02 METAR KTYS 011353Z 01005KT 10SM OVC017 11/09 A3019 RMK AO2 SLP220 T01060094 (NS)
01	0953	MET10412/01/17 09:53:02 METAR KTYS 011453Z 01006KT 10SM BKN016 11/09 A3020 RMK AO2 SLP225 T01110094 53009 (NS)
01	1000	SYN06472326 32466 60106 10111 20094 39866 40225 53009 91453 555 90115=
01	1021	MET09812/01/17 10:21:02 SPECI KTYS 011521Z 02006KT 10SM SCT016 BKN025 12/09 A3021 RMK AO2 T01170094 (NS)
01	1053	MET10512/01/17 10:53:02 METAR KTYS 011553Z 06007KT 10SM FEW017 BKN025 12/10 A3021 RMK AO2 SLP226 T01220100 (NS)
01	1121	MET09112/01/17 11:21:02 SPECI KTYS 011621Z 05007KT 10SM SCT025 12/10 A3020 RMK AO2 T01220100 (NS)
01	1153	MET09812/01/17 11:53:02 METAR KTYS 011653Z 04005KT 10SM SCT025 14/11 A3019 RMK AO2 SLP221 T01390106 (NS)
01	1219	MET09112/01/17 12:19:02 SPECI KTYS 011719Z VRB05KT 10SM BKN025 14/11 A3019 RMK AO2 T01390106 (NS)
01	1253	MET11612/01/17 12:53:02 METAR KTYS 011753Z 04005KT 10SM OVC025 14/11 A3018 RMK AO2 SLP216 T01390106 10139 20100 58008 (NS)
01	1300	SYN08072326 32566 80405 10139 20106 39860 40216 58008 91753 333 10139 20100 555 90118=
01	1353	MET09812/01/17 13:53:02 METAR KTYS 011853Z 00000KT 10SM BKN025 14/11 A3015 RMK AO2 SLP209 T01440106 (NS)
01	1418	MET09112/01/17 14:18:02 SPECI KTYS 011918Z 07003KT 10SM SCT025 15/11 A3015 RMK AO2 T01500106 (NS)
01	1453	MET09812/01/17 14:53:02 METAR KTYS 011953Z 00000KT 10SM SCT025 16/10 A3014 RMK AO2 SLP204 T01560100 (NS)
01	1553	MET11112/01/17 15:53:02 METAR KTYS 012053Z 00000KT 10SM SCT025 SCT250 16/10 A3014 RMK AO2 SLP202 T01560100 56013 (NS)
01	1600	SYN06472326 32566 40000 10156 20100 39846 40202 56013 92053 555 90121=
01	1653	MET10612/01/17 16:53:02 METAR KTYS 012153Z 00000KT 10SM FEW025 FEW250 14/10 A3014 RMK AO2 SLP202 T01440100 (ALG)
01	1753	MET09912/01/17 17:53:02 METAR KTYS 012253Z 00000KT 10SM SCT250 13/10 A3014 RMK AO2 SLP205 T01330100 (ALG)
01	1853	MET11712/01/17 18:53:02 METAR KTYS 012353Z 00000KT 10SM SCT250 12/09 A3015 RMK AO2 SLP209 T01170094 10167 20117 53005 (ALG)
01	1900	SYN08072326 32966 40000 10117 20094 39850 40209 53005 92353 333 10167 20100 555 90200=
01	1953	MET10012/01/17 19:53:01 METAR KTYS 020053Z 30003KT 10SM FEW050 BKN250 11/09 A3016 RMK AO2 SLP211 T01110094
01	2053	MET10012/01/17 20:53:01 METAR KTYS 020153Z 00000KT 10SM FEW055 BKN250 09/09 A3016 RMK AO2 SLP212 T00940094
01	2153	MET09812/01/17 21:53:02 METAR KTYS 020253Z 00000KT 8SM OVC250 09/09 A3016 RMK AO2 SLP211 T00940094 50001
01	2200	SYN06472326 32962 80000 10094 20094 39853 40211 50001 90253 555 90203=
01	2253	MET09212/01/17 22:53:02 METAR KTYS 020353Z 00000KT 8SM OVC050 09/09 A3016 RMK AO2 SLP211 T00890089
01	2353	MET11612/01/17 23:53:02 METAR KTYS 020453Z 00000KT 7SM FEW050 BKN130 OVC250 08/08 A3016 RMK AO2 SLP210 T00780078 401670078

Local Climatological Data
Hourly Precipitation
December 2017

Generated on 04/11/2018

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																										03
04																										04
05									T	T	0.14	0.19	0.11	0.07	0.08	0.11	0.08	0.06	T	T	T	T	T		05	
06																										06
07																										07
08												T	0.01s	0.03	0.01	T	T	T	T	T	T	T		T	08	
09	0.01	T	T	0.01	0.01	T											T					T			09	
10																										10
11																M										11
12											T															12
13																										13
14																										14
15																										15
16																										16
17									T		T	T	T	0.01	0.02	T	T	T		T						17
18	0.01s	T	T	T	T	T	0.01	T			T															18
19																				T	0.01	0.01	T	0.15	0.15	19
20	0.05	0.04	0.03	0.07	0.12	0.16	0.17	0.21	0.15	0.10	0.03	0.01	0.01			0.04	0.05	0.04	0.11	0.01	T	0.01			20	
21			T	T	T		0.01	0.04	0.01	0.01	T	T														21
22																T	0.07	0.01	T	0.01	0.02	0.03	T	T		22
23											T	0.03	0.38	0.03	0.02	0.01										23
24																				T	T	T	T		T	24
25	T	T																								25
26																										26
27																										27
28																										28
29																										29
30																										30
31																										31

Maximum Short Duration Precipitation

Time Period (Minutes)	5	10	15	20	30	45	60	80	100	120	150	180
Precipitation (inches)	0.17	0.21	0.25	0.26	0.29	0.35	0.39	0.41	0.41	0.43	0.50	0.57
Ending Date Time (yyyy-mm-dd hh:mi)	2017-12-23 11:18	2017-12-23 11:22	2017-12-23 11:28	2017-12-23 11:31	2017-12-23 11:38	2017-12-23 11:59	2017-12-23 12:05	2017-12-23 12:26	2017-12-23 12:26	2017-12-23 12:26	2017-12-20 08:19	2017-12-20 08:35

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