

## Local Climatological Data Daily Summary October 2018

Generated on 02/18/2019

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		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	85	68	76	10.9	81	68	71	0	11	0631	1820	TS RA	T	0.0	0	29.21	30.23	3.1	12	240	10	310		
02	79	66	73	8.3	82	66	68	0	8	0632	1819		0.00	0.0	0	29.16	30.18	3.2	16	260	13	210		
03	85	65	75	10.7	80	67	69	0	10	0632	1817		0.00	0.0	0	29.08	30.10	2.0	12	320	8	260		
04	87	65	76	12.1	79	68	70	0	11	0633	1816		0.00	0.0	0	29.05	30.08	2.5	18	280	12	290		
05	89	67	78	14.4	78	69	71	0	13	0634	1814		0.00	0.0	0	29.05	30.06	1.6	10	280	7	330		
06	89*	67	78	14.8	79	69	72	0	13	0635	1813	BR	0.00	0.0	0	29.06	30.09	1.5	13	290	9	290		
07	88	68	78	15.2	79	69	72	0	13	0636	1811	BR	0.00	0.0	0	29.11	30.14	3.3	12	090	10	090		
08	87	66	77	14.5	77	68	71	0	12	0636	1810		0.00	0.0	0	29.12	30.14	3.7	11	020	10	070		
09	85	68	76	13.9	72	65	68	0	11	0637	1809		0.00	0.0	0	29.05	30.06	4.9	16	180	14	180		
10	85	68	76	14.3	81	69	71	0	11	0638	1807	RA BR	0.18	0.0	0	28.83	29.83	4.7	14	160	8	010		
11	75	58	66	4.6	81	62	64	0	1	0639	1806	RA BR	0.97	0.0	0	28.74	29.77	7.4	26	340	18	340		
12	66	48	57	-4.1	66	45	51	8	0	0640	1805		0.00	0.0	0	28.90	29.93	5.2	16	340	13	020		
13	62	51	57	-3.7	71	46	51	8	0	0641	1803		0.00	0.0	0	28.94	29.99	5.7	19	010	14	010		
14	71	50	61	0.6	90	56	57	4	0	0642	1802	RA BR	0.03	0.0	0	29.03	30.06	4.1	14	040	9	040		
15	80	56	68	7.9	88	64	66	0	3	0642	1801	TS RA FG BR	0.42	0.0	0	29.05	30.08	5.4	25	350	21	350		
16	62	57	60	0.3	93	57	58	5	0	0643	1759	RA BR	0.24	0.0	0	29.12	30.16	4.1	19	340	15	360		
17	68	51	60	0.6	69	47	53	5	0	0644	1758	RA	T	0.0	0	29.20	30.26	5.2	13	360	12	020		
18	66	46	56	-3.1	63	41	48	9	0	0645	1757		0.00	0.0	0	29.31	30.37	7.3	22	060	17	040		
19	71	41	56	-2.8	79	50	53	9	0	0646	1755	RA	T	0.0	0	29.19	30.21	6.3	23	220	18	240		
20	64	49	56	-2.5	86	53	55	9	0	0647	1754	RA BR	0.51	0.0	0	28.96	30.00	10.5	22	250	17	260		
21	56	34	45	-13.1	60	30	38	20	0	0648	1753		0.00	0.0	0	29.21	30.28	6.2	35	360	25	360		
22	61	33*	47	-10.8	79	41	45	18	0	0649	1752	FG BR	0.00	0.0	0	29.20	30.26	2.1	13	260	10	270		
23	66	41	54	-3.5	75	44	48	11	0	0650	1751	BR	0.00	0.0	0	29.16	30.20	1.1	8	260	6	260		
24	65	38	51	-6.2	71	41	46	14	0	0650	1749	FG BR	0.00	0.0	0	29.15	30.20	7.2	22	050	17	030		
25	54	43	48	-8.9	79	42	46	17	0	0651	1748	RA	0.14	0.0	0	29.06	30.08	5.6	16	190	13	180		
26	55	48	52	-4.6	98	51	51	13	0	0652	1747	RA DZ BR	0.50	0.0	0	28.71	29.72	8.0	21	220	16	220		
27	53	48	51	-5.3	88	47	49	14	0	0653	1746	RA BR	0.01	0.0	0	28.77	29.84	9.7	23	280	18	270		
28	70	42	56	0.0	73	47	51	9	0	0654	1745	BR	0.00	0.0	0	28.92	29.97	11.1	39	220	30	220		
29	63	38	50	-5.6	63	38	45	15	0	0655	1744		0.00	0.0	0	29.05	30.11	3.1	14	290	12	290		
30	67	36	51	-4.3	74	42	47	14	0	0656	1743		0.00	0.0	0	29.10	30.16	1.5	11	230	9	230		
31	74	45	59	4.0	83	53	55	6	0	0657	1742		0.00	0.0	0	29.03	30.06	4.6	26	190	21	220		
<b>Monthly Averages   Totals</b>													3.00			29.05	30.08	4.9						
<b>Departure from Normal (1981-2010)</b>													0.49											

Degree Days				Number of days with...										
Monthly		Season-to-date		Temperature				Precipitation		Snow	Weather			
Total	Departure	Total	Departure	Max		Min								
Heating	Cooling	>=90°	<=32°	<=32°	<=0°	>=0.01"	>=0.1"	>=1"	T-Storms	Heavy Fog				
208	118	12	82	208	1943	0	0	0	0	9	7	0		
Date of 5-sec to 3-sec wind equipment change				Sea Level Pressure				Greatest...						
2007-04-17				Maximum		Date		Time		24-Hr...		Snow Depth		
				30.43		18		1053		Precip	Snowfall			
				29.64		26		1615		1.15	0.0	0		
				Date				10-11						
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 October 2018

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

Generated on 02/18/2019

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	0053	7	OVC:08 70	10.00		71	21.7	70	21.3	70	21.1	96	0	000		29.19	1	-0.01	30.22	FM-15	0.00	30.25
01	0100	4	74	9.94		71	21.7	70	21.3	70	21.1	96	0	000		29.18	1	-0.01	30.22	FM-12		30.25
01	0153	7	OVC:08 90	10.00		71	21.7	70	20.9	69	20.6	94	3	020		29.21			30.22	FM-15	0.00	30.26
01	0253	7	OVC:08 90	10.00		70	21.1	69	20.4	68	20.0	93	3	020		29.21			30.22	FM-15	0.00	30.26
01	0353	7	BKN:07 75 OVC:08 90	10.00		68	20.0	68	20.0	68	20.0	100	3	020		29.21	1	-0.00	30.22	FM-15	0.00	30.26
01	0400	4	74	9.94		68	20.0	68	20.0	68	20.0	100	3	020		29.19	1	-0.00	30.22	FM-12		30.26
01	0453	7	FEW:02 70 OVC:08 90	10.00		69	20.6	68	20.2	68	20.0	96	0	000		29.22			30.25	FM-15	0.00	30.28
01	0553	7	OVC:08 90	10.00		68	20.0	68	20.0	68	20.0	100	3	070		29.23			30.26	FM-15	0.00	30.29
01	0653	7	SCT:04 55 SCT:04 95 BKN:07 200	10.00		68	20.0	68	20.0	68	20.0	100	3	070		29.24	1	-0.04	30.27	FM-15	0.00	30.30
01	0700	4	57	9.94		68	20.0	68	20.0	68	20.0	100	3	070		29.23	1	-0.04	30.27	FM-12		30.30
01	0753	7	FEW:02 95 SCT:04 200	10.00		71	21.7	70	20.9	69	20.6	94	0	000		29.25			30.28	FM-15	0.00	30.31
01	0853	7	FEW:02 40 FEW:02 95 SCT:04 250	10.00		75	23.9	70	21.3	68	20.0	79	0	000		29.27			30.30	FM-15	0.00	30.33
01	0953	7	SCT:04 50 SCT:04 90 BKN:07 250	10.00		77	25.0	72	22.0	69	20.6	77	3	120		29.27	1	-0.04	30.30	FM-15	0.00	30.33
01	1000	4	57	9.94		77	25.0	72	22.0	69	20.6	77	3	120		29.26	1	-0.04	30.30	FM-12		30.33
01	1053	7	FEW:02 24 SCT:04 120 BKN:07 250	10.00		81	27.2	73	22.7	69	20.6	67	5	360		29.26			30.29	FM-15	0.00	30.32
01	1153	7	FEW:02 26 FEW:02 120 BKN:07 250	10.00		82	27.8	73	22.5	68	20.0	63	5	330		29.24			30.27	FM-15	0.00	30.30
01	1253	7	SCT:04 35 SCT:04 150 BKN:07 250	10.00		84	28.9	73	22.5	67	19.4	57	3	VRB		29.22	8	+0.05	30.24	FM-15	0.00	30.28
01	1300	4	41	9.94		84	28.9	73	22.5	67	19.4	57	3			29.21	8	+0.05	30.24	FM-12		30.28
01	1353	7	FEW:02 50 FEW:02 95 SCT:04 150	10.00		84	28.9	73	22.9	68	20.0	59	3	VRB		29.19			30.21	FM-15	0.00	30.25
01	1453	7	SCT:04 41 BKN:07 55 BKN:07 110	10.00		84	28.9	73	22.5	67	19.4	57	7	360		29.18			30.19	FM-15	0.00	30.23
01	1553	7	SCT:04 50 BKN:07 100 BKN:07 250	10.00		82	27.8	72	22.2	67	19.4	60	5	320		29.16	6	+0.06	30.19	FM-15	0.00	30.22
01	1600	4	57	9.94		82	27.8	72	22.2	67	19.4	60	5	320		29.15	6	+0.06	30.19	FM-12		30.22
01	1653	7	SCT:04 50 SCT:04 70 SCT:04 100	10.00		81	27.2	70	21.4	65	18.3	58	3	260		29.15			30.18	FM-15	0.00	30.21
01	1753	7	SCT:04 50 BKN:07 110 BKN:07 250	10.00		81	27.2	70	21.4	65	18.3	58	0	000		29.15			30.18	FM-15	0.00	30.21
01	1851	6	BKN:07 42 OVC:08 100	10.00	VCTS:7 -RA:02  RA  RA	75	24.0	72	22.0	70	21.0	83	6	280		29.16				FM-16		30.22
01	1853	7	BKN:07 42 OVC:08 100	10.00	VCTS:7 -RA:02  RA  RA	76	24.4	72	22.2	70	21.1	82	5	280		29.16	3	-0.01	30.19	FM-15	T	30.22

01	1900	4	41	9.94	RA	76	24.4	72	22.2	70	21.1	82	5	280		29.15	3	-0.01	30.19	FM-12		30.22
01	1907	7	OVC:08 42	10.00	-RA:02  RA  RA	74	23.3	72	22.2	71	21.7	91	6	300		29.16				FM-16	T	30.22
01	1953	7	FEW:02 37 SCT:04 55 OVC:08 100	10.00		74	23.3	71	21.9	70	21.1	88	5	290		29.18			30.20	FM-15	T	30.23
01	2053	7	FEW:02 42 SCT:04 70 OVC:08 100	10.00		73	22.8	72	22.0	71	21.7	94	0	000		29.18			30.21	FM-15	0.00	30.24
01	2153	7	FEW:02 50 BKN:07 100	10.00		73	22.8	72	22.0	71	21.7	94	3	240		29.19	3	-0.03	30.22	FM-15	0.00	30.25
01	2200	4	57	9.94		73	22.8	72	22.0	71	21.7	94	3	240		29.18	3	-0.03	30.22	FM-12		30.25
01	2253	7	FEW:02 55 BKN:07 100	10.00		72	22.2	71	21.5	70	21.1	94	5	210		29.19			30.21	FM-15	0.00	30.25
01	2353	7	SCT:04 100	10.00		71	21.7	70	20.9	69	20.6	94	6	250		29.18			30.21	FM-15	0.00	30.24

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**  
**October 2018**

Generated on 02/18/2019

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

Date	Time (LST)	Remarks
01	0053	MET11710/01/18 00:53:02 METAR KTYS 010553Z 00000KT 10SM OVC070 22/21 A3025 RMK AO2 SLP234 T02170211 10256 20211 51003 (JTD)
01	0100	SYN08072326 32866 80000 10217 20211 39883 40234 51003 90553 333 10278 20167 555 90106=
01	0153	MET09910/01/18 01:53:02 METAR KTYS 010653Z 02003KT 10SM OVC090 22/21 A3026 RMK AO2 SLP235 T02170206 (JTD)
01	0253	MET09910/01/18 02:53:02 METAR KTYS 010753Z 02003KT 10SM OVC090 21/20 A3026 RMK AO2 SLP234 T02110200 (JTD)
01	0353	MET11210/01/18 03:53:02 METAR KTYS 010853Z 02003KT 10SM BKN075 OVC090 20/20 A3026 RMK AO2 SLP235 T02000200 51001 (JTD)
01	0400	SYN06472326 32866 80203 10200 20200 39886 40235 51001 90853 555 90109=
01	0453	MET10610/01/18 04:53:02 METAR KTYS 010953Z 00000KT 10SM FEW070 OVC090 21/20 A3028 RMK AO2 SLP243 T02060200 (JTD)
01	0553	MET09910/01/18 05:53:02 METAR KTYS 011053Z 07003KT 10SM OVC090 20/20 A3029 RMK AO2 SLP246 T02000200 (JTD)
01	0653	MET13110/01/18 06:53:02 METAR KTYS 011153Z 07003KT 10SM SCT055 SCT095 BKN200 20/20 A3030 RMK AO2 SLP250 T02000200 10217 20200 51013 (JTD)
01	0700	SYN08072326 32766 60703 10200 20200 39899 40250 51013 91153 333 10294 20200 555 90112=
01	0753	MET10610/01/18 07:53:02 METAR KTYS 011253Z 00000KT 10SM FEW095 SCT200 22/21 A3031 RMK AO2 SLP255 T02170206 (JTD)
01	0853	MET11210/01/18 08:53:02 METAR KTYS 011353Z 00000KT 10SM FEW040 FEW095 SCT250 24/20 A3033 RMK AO2 SLP260 T02390200 (BB)
01	0953	MET11810/01/18 09:53:02 METAR KTYS 011453Z 12003KT 10SM SCT050 SCT090 BKN250 25/21 A3033 RMK AO2 SLP260 T02500206 51012 (BB)
01	1000	SYN06472326 32766 61203 10250 20206 39909 40260 51012 91453 555 90115=
01	1053	MET11210/01/18 10:53:02 METAR KTYS 011553Z 36004KT 10SM FEW024 SCT120 BKN250 27/21 A3032 RMK AO2 SLP257 T02720206 (BB)
01	1153	MET11210/01/18 11:53:02 METAR KTYS 011653Z 33004KT 10SM FEW026 FEW120 BKN250 28/20 A3030 RMK AO2 SLP251 T02780200 (BB)
01	1253	MET13010/01/18 12:53:02 METAR KTYS 011753Z VRB03KT 10SM SCT035 SCT150 BKN250 29/19 A3028 RMK AO2 SLP242 T02890194 10289 20200 58018 (BB)
01	1300	SYN08072326 32666 6/03 10289 20194 39893 40242 58018 91753 333 10289 20200 555 90118=
01	1353	MET11210/01/18 13:53:02 METAR KTYS 011853Z VRB03KT 10SM FEW050 FEW095 SCT150 29/20 A3025 RMK AO2 SLP231 T02890200 (BB)
01	1453	MET11310/01/18 14:53:02 METAR KTYS 011953Z 36006KT 10SM SCT041 BKN055 BKN110 29/19 A3023 RMK AO2 SLP225 T02890194 (ALG)
01	1553	MET11910/01/18 15:53:02 METAR KTYS 012053Z 32004KT 10SM SCT050 BKN100 BKN250 28/19 A3022 RMK AO2 SLP222 T02780194 56020 (ALG)
01	1600	SYN06472326 32766 63204 10278 20194 39873 40222 56020 92053 555 90121=
01	1653	MET11310/01/18 16:53:02 METAR KTYS 012153Z 26003KT 10SM SCT050 SCT070 SCT100 27/18 A3021 RMK AO2 SLP220 T02720183 (ALG)
01	1753	MET12510/01/18 17:53:02 METAR KTYS 012253Z 00000KT 10SM SCT050 BKN110 BKN250 27/18 A3021 RMK AO2 SLP219 CB DSNT WSW T02720183 (ALG)
01	1851	MET12610/01/18 18:51:02 SPECI KTYS 012351Z 28005KT 10SM VCTS -RA BKN042 OVC100 24/21 A3022 RMK AO2 RAB09 CB DSNT NW P0000 FIBI (ALG)
01	1853	MET16210/01/18 18:53:02 METAR KTYS 012353Z 28004KT 10SM VCTS -RA BKN042 OVC100 24/21 A3022 RMK AO2 RAB09 SLP224 CB DSNT NW P0000 60000 T02440211 10294 20244 53002 (ALG)
01	1900	SYN09872326 11666 82804 10244 20211 39873 40224 53002 69901 761// 92353 333 10294 20200 96061 555 90200=
01	1907	MET09610/01/18 19:07:01 SPECI KTYS 020007Z 30005KT 10SM -RA OVC042 23/22 A3022 RMK AO2 P0000 T02330217
01	1953	MET11910/01/18 19:53:01 METAR KTYS 020053Z 29004KT 10SM FEW037 SCT055 OVC100 23/21 A3023 RMK AO2 RAE38 SLP227 P0000 T02330211
01	2053	MET10710/01/18 20:53:02 METAR KTYS 020153Z 00000KT 10SM FEW042 SCT070 OVC100 23/22 A3024 RMK AO2 SLP229 T02280217
01	2153	MET11210/01/18 21:53:02 METAR KTYS 020253Z 24003KT 10SM FEW050 BKN100 23/22 A3025 RMK AO2 SLP233 60000 T02280217 53009
01	2200	SYN07072326 12766 62403 10228 20217 39883 40233 53009 69907 90253 555 90203=
01	2253	MET10010/01/18 22:53:01 METAR KTYS 020353Z 21004KT 10SM FEW055 BKN100 22/21 A3025 RMK AO2 SLP231 T02220211
01	2353	MET10310/01/18 23:53:02 METAR KTYS 020453Z 25005KT 10SM SCT100 22/21 A3024 RMK AO2 SLP229 T02170206 402940200

**Local Climatological Data**  
**Hourly Precipitation**  
**October 2018**

Generated on 02/18/2019

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																			T	T					01		
02																										02	
03																										03	
04																										04	
05																										05	
06																										06	
07																										07	
08																										08	
09																										09	
10				T	T																	0.01	0.05	0.03	0.09	10	
11	0.18	0.25	0.12	0.24	0.10	0.03	0.03	0.02	T	T																11	
12																										12	
13																										13	
14			T		T			0.01	0.01	0.01	T							T	T	T	T					14	
15																			0.25s	0.17	T			T		15	
16	T	T	T							T	T		T	T	0.02	0.04	0.01	0.01	0.02	0.02	0.02	0.05	0.04	0.01		16	
17	T	T																								17	
18																										18	
19																									T	T	19
20	T	T	0.02	0.05	0.07	0.11	0.12	0.03	0.08	0.03																20	
21																										21	
22																										22	
23																										23	
24																										24	
25																			T	0.02	T	T	0.01	0.11		25	
26	0.03	0.05	0.11	0.14	0.04	0.07	0.02	0.01			T	T		T		T	0.01	0.01	0.01	T			T	T	T	26	
27					0.01	T			T	T	T															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)	0.11	0.17	0.23	0.27	0.33	0.37	0.40	0.42	0.42	0.46	0.52	0.63
Ending Date Time (yyyy-mm-dd hh:mi)	2018-10-15 18:54	2018-10-15 18:59	2018-10-15 19:02	2018-10-15 19:09	2018-10-15 19:14	2018-10-15 19:20	2018-10-15 19:20	2018-10-15 19:41	2018-10-15 19:41	2018-10-11 01:48	2018-10-11 03:52	2018-10-11 03:36

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