

Local Climatological Data

Daily Summary

January 2020

Current Location: Elev: 962 ft. Lat: 35.8181° N Lon: -83.9858° W

Generated on 03/09/2021

Station: **KNOXVILLE AIRPORT, TN US WBAN: 72326013891 (KTYS)**

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	51	33	42	3.7	54	25	35	23	0	0746	1733		0.00	0.0	0	28.96	30.01	5.8	17	210	14	220			
02	45	37	41	2.8	82	36	39	24	0	0746	1734	RA BR	1.56	0.0	0	28.89	29.93	4.0	16	360	13	030			
03	57	44	51	12.8	94			14	0	0747	1735	RA BR FG	1.33	0.0	0	28.79		4.0	23	230	17	230			
04	57	38	48	9.9	76	40	44	17	0	0747	1736	RA BR	0.17	0.0	0	28.85	29.95	12.9	33	300	25	300			
05	48	33	41	2.9	61	28	35	24	0	0747	1736		0.00	0.0	0	29.18	30.25	7.9	19	230	16	210			
06	57	31	44	6.0	52	26	37	21	0	0747	1737		0.00	0.0	0	29.10	30.15	3.1	12	010	9	020			
07	53	37	45	7.0	60	30	39	20	0	0747	1738	RA BR	0.62	0.0	0	28.98	30.07	9.6	26	260	22	260			
08	57	32	45	7.0	53	27	37	20	0	0747	1739		0.00	0.0	0	29.28	30.37	7.5	22	220	17	220			
09	61	29	45	7.1	59	31	39	20	0	0747	1740		0.00	0.0	0	29.36	30.43	4.6	33	190	24	180			
10	69	52	61	23.1	55	45	53	4	0	0747	1741		0.00	0.0	0	29.26	30.30	9.2	41	190	29	180			
11	77*	58	68	30.1	65	56	61	0	3	0746	1742	TS RA BR	0.60	0.0	0	28.94	29.95	19.0	56	210	44	220			
12	63	44	54	16.1	73	45	50	11	0	0746	1743		0.00	0.0	0	29.18	30.22	4.2	26	240	20	250			
13	62	44	53	15.1	79	47	50	12	0	0746	1744	RA	0.01	0.0	0	29.24	30.30	1.7	10	270	9	270			
14	64	55	60	22.1	89	57	58	5	0	0746	1745	TS RA BR	0.94	0.0	0	29.13	30.17	6.7	37	170	28	170			
15	68	57	63	25.1	87	58	60	2	0	0746	1746	RA DZ BR	0.02	0.0	0	29.10	30.13	8.4	21	220	17	220			
16	64	40	52	14.0	51	34	44	13	0	0745	1747	TS	0.02	0.0	0	29.29	30.40	9.3	22	360	17	010			
17	43	34	39	1.0	47	20	32	26	0	0745	1748	RA PL	T	T	0	29.49	30.54	9.4	24	040	20	040			
18	51	39	45	7.0	79	38	42	20	0	0745	1749	RA BR	0.60	0.0	0	29.08	30.18	8.6	28	280	23	270			
19	51	26	39	0.9	56	22	32	26	0	0744	1750		0.00	0.0	0	29.11	30.20	12.4	26	260	22	300			
20	28	24	26	-12.1	59	13	22	39	0	0744	1751	SN	T	T	0	29.34	30.44	10.5	24	030	18	030			
21	34	24	29	-9.2	52	12	23	36	0	0743	1752	SN	T	T	0	29.42	30.51	9.5	23	020	18	020			
22	41	18*	30	-8.3	58	17	26	35	0	0743	1753		0.00	0.0	0	29.31	30.38	4.6	12	070	9	030			
23	47	30	39	0.7	61	26	34	26	0	0742	1754	RA	0.11	0.0	0	29.13	30.16	3.5	11	030	10	020			
24	52	42	47	8.6	86	42	44	18	0	0742	1755	RA BR	0.98	0.0	0	28.89	29.92	5.8	26	280	21	250			
25	45	38	42	3.5	70	31	37	23	0	0741	1756	RA	T	0.0	0	28.97	30.05	9.5	24	270	21	270			
26	44	31	38	-0.6	67	29	35	27	0	0741	1757		0.00	0.0	0	29.02	30.06	4.9	16	210	13	220			
27	51	38	45	6.3	82	39	42	20	0	0740	1758	RA BR	0.30	0.0	0	28.87	29.93	5.3	16	220	13	230			
28	53	28	41	2.1	70	32	38	24	0	0739	1759	FG BR	0.00	0.0	0	28.97	30.03	2.0	11	320	8	040			
29	51	34	43	4.0	73	35	39	22	0	0739	1800	RA	T	0.0	0	28.97	30.03	3.5	13	040	10	040			
30	56	41	49	9.9	71	38	43	16	0	0738	1801		0.00	0.0	0	29.05	30.11	1.9	9	310	8	310			
31	52	41	47	7.7	75	39	43	18	0	0737	1802	RA	T	0.0	0	29.07	30.12	2.6	11	220	8	230			
Monthly Averages Totals													7.26	T		29.10	30.16	6.9							
Departure from Normal (1981-2010)													2.94												

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	614	-215	1870	>=90°	<=32°	<=32°	<=0°	>=0.01"	>=0.1"	>=1"	T-Storms	Heavy Fog	
Cooling	2	2	2	0	1	10	0	13	10	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	
				30.63		17		1110		Precip			
				Minimum		11		1653		2.69		0.0	
				29.78									
				Date		02-03		21-21					
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

Local Climatological Data Hourly Observations January 2020

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

Current Location: Elev: 962 ft. Lat: 35.8181° N Lon: -83.9858° W

Generated on 03/09/2021

Station: KNOXVILLE AIRPORT, TN US WBAN: 72326013891 (KTYS)

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	SCT:04 46	10.00		37	2.8	34	1.1	29	-1.7	73	8	230		28.97	3	-0.04	30.03	FM-15	0.00	30.02
01	0100	4	41	9.94		37	2.8	34	1.1	29	-1.7	73	8	230		28.96	3	-0.04	30.03	FM-12		30.02
01	0153	7	OVC:08 45	10.00		39	3.9	35	1.7	29	-1.7	67	9	200		28.96			30.02	FM-15	0.00	30.01
01	0253	7	OVC:08 48	10.00		37	2.8	33	0.6	28	-2.2	70	8	210		28.96			30.01	FM-15	0.00	30.01
01	0353	7	SCT:04 49	10.00		35	1.7	32	0.0	27	-2.8	72	7	220		28.96	6	+0.01	30.01	FM-15	0.00	30.01
01	0400	4	41	9.94		35	1.7	32	0.0	27	-2.8	72	7	220		28.95	6	+0.01	30.01	FM-12		30.01
01	0453	7	FEW:02 49	10.00		36	2.2	33	0.6	27	-2.8	70	6	220		28.95			30.00	FM-15	0.00	30.00
01	0553	7	FEW:02 49	10.00		35	1.7	32	0.0	26	-3.3	70	6	220		28.95			30.01	FM-15	0.00	30.00
01	0653	7	CLR:00	10.00		34	1.1	31	-0.6	26	-3.3	73	7	210		28.97	3	-0.01	30.03	FM-15	0.00	30.02
01	0700	4		9.94		34	1.1	31	-0.6	26	-3.3	73	7	210		28.96	3	-0.01	30.03	FM-12		30.02
01	0753	7	SCT:04 250	10.00		33	0.6	30	-1.1	26	-3.3	75	7	230		28.99			30.05	FM-15	0.00	30.04
01	0853	7	FEW:02 250	10.00		37	2.8	33	0.6	27	-2.8	67	6	240		29.00			30.06	FM-15	0.00	30.05
01	0953	7	SCT:04 250	10.00		42	5.6	36	2.2	27	-2.8	55	8	230		29.02	1	-0.05	30.08	FM-15	0.00	30.07
01	1000	4		9.94		42	5.6	36	2.2	27	-2.8	55	8	230		29.01	1	-0.05	30.08	FM-12		30.07
01	1053	7	BKN:07 250	10.00		45	7.2	37	2.8	26	-3.3	48	10	230		29.02			30.08	FM-15	0.00	30.07
01	1153	7	BKN:07 250	10.00		45	7.2	38	3.3	27	-2.8	49	10	210		29.00			30.06	FM-15	0.00	30.05
01	1253	7	BKN:07 250	10.00		47	8.3	38	3.3	25	-3.9	42	10	230		28.97	8	+0.05	30.02	FM-15	0.00	30.02
01	1300	4		9.94		47	8.3	38	3.3	25	-3.9	42	10	230		28.96	8	+0.05	30.02	FM-12		30.02
01	1353	7	BKN:07 250	10.00		50	10.0	39	3.9	23	-5.0	35	10	230		28.95			30.00	FM-15	0.00	30.00
01	1453	7	BKN:07 250	10.00		50	10.0	39	3.9	23	-5.0	35	3	VRB		28.93			29.98	FM-15	0.00	29.98
01	1553	7	BKN:07 250	10.00		51	10.6	40	4.4	23	-5.0	33	5	VRB		28.93	5	+0.03	29.99	FM-15	0.00	29.98
01	1600	4		9.94		51	10.6	40	4.4	23	-5.0	33	5			28.92	5	+0.03	29.99	FM-12		29.98
01	1653	7	BKN:07 250	10.00		48	8.9	38	3.3	22	-5.6	36	7	220		28.93			29.99	FM-15	0.00	29.98
01	1753	7	BKN:07 250	10.00		46	7.8	37	2.8	23	-5.0	40	3	230		28.94			29.99	FM-15	0.00	29.99
01	1853	7	BKN:07 250	10.00		46	7.8	37	2.8	22	-5.6	38	3	220		28.93	8	0.00	29.99	FM-15	0.00	29.98
01	1900	4		9.94		46	7.8	37	2.8	22	-5.6	38	3	220		28.92	8	0.00	29.99	FM-12		29.98
01	1953	7	FEW:02 150 BKN:07 250	10.00		44	6.7	36	2.2	22	-5.6	41	3	180		28.93			29.98	FM-15	0.00	29.98
01	2053	7	FEW:02 150 BKN:07 250	10.00		43	6.1	36	2.2	24	-4.4	47	0	000		28.92			29.98	FM-15	0.00	29.97
01	2153	7	FEW:02 150 BKN:07 250	10.00		41	5.0	35	1.7	25	-3.9	53	0	000		28.92	6	+0.01	29.97	FM-15	0.00	29.97
01	2200	4		9.94		41	5.0	35	1.7	25	-3.9	53	0	000		28.91	6	+0.01	29.97	FM-12		29.97
01	2253	7	FEW:02 150 OVC:08 250	10.00		39	3.9	34	1.1	25	-3.9	57	0	000		28.92			29.98	FM-15	0.00	29.97
01	2353	7	FEW:02 150 OVC:08 250	10.00		39	3.9	34	1.1	25	-3.9	57	0	000		28.91			29.96	FM-15	0.00	29.96

U.S. Department of Commerce
 National Oceanic & Atmospheric Administration
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Local Climatological Data
Hourly Remarks
January 2020

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

Current Location: Elev: 962 ft. Lat: 35.8181° N Lon: -83.9858° W

Generated on 03/09/2021

Station: **KNOXVILLE AIRPORT, TN US WBAN: 72326013891 (KTYS)**

Date	Time (LST)	Remarks
01	0053	MET11401/01/20 00:53:02 METAR KTYS 010553Z 23007KT 10SM SCT046 03/M02 A3002 RMK AO2 SLP169 T00281017 10050 20022 53014 \$
01	0100	SYN08072326 32666 42307 10028 21017 39807 40169 53014 90553 333 10061 20022 555 90106=
01	0153	MET09601/01/20 01:53:02 METAR KTYS 010653Z 20008KT 10SM OVC045 04/M02 A3001 RMK AO2 SLP165 T00391017 \$
01	0253	MET09601/01/20 02:53:02 METAR KTYS 010753Z 21007KT 10SM OVC048 03/M02 A3001 RMK AO2 SLP164 T00281022 \$
01	0353	MET10201/01/20 03:53:02 METAR KTYS 010853Z 22006KT 10SM SCT049 02/M03 A3001 RMK AO2 SLP163 T00171028 56004 \$
01	0400	SYN06472326 32666 42206 10017 21028 39804 40163 56004 90853 555 90109=
01	0453	MET09601/01/20 04:53:02 METAR KTYS 010953Z 22005KT 10SM FEW049 02/M03 A3000 RMK AO2 SLP160 T00221028 \$
01	0553	MET09601/01/20 05:53:02 METAR KTYS 011053Z 22005KT 10SM FEW049 02/M03 A3000 RMK AO2 SLP163 T00171033 \$
01	0653	MET11101/01/20 06:53:02 METAR KTYS 011153Z 21006KT 10SM CLR 01/M03 A3002 RMK AO2 SLP168 T00111033 10039 20006 53003 \$
01	0700	SYN08072326 32966 02106 10011 21033 39807 40168 53003 91153 333 10089 20006 555 90112=
01	0753	MET09601/01/20 07:53:02 METAR KTYS 011253Z 23006KT 10SM SCT250 01/M03 A3004 RMK AO2 SLP176 T00061033 \$
01	0853	MET09601/01/20 08:53:02 METAR KTYS 011353Z 24005KT 10SM FEW250 03/M03 A3005 RMK AO2 SLP179 T00281028 \$
01	0953	MET10201/01/20 09:53:02 METAR KTYS 011453Z 23007KT 10SM SCT250 06/M03 A3007 RMK AO2 SLP186 T00561028 51018 \$
01	1000	SYN06472326 32966 42307 10056 21028 39823 40186 51018 91453 555 90115=
01	1053	MET09601/01/20 10:53:02 METAR KTYS 011553Z 23009KT 10SM BKN250 07/M03 A3007 RMK AO2 SLP186 T00721033 \$
01	1153	MET09601/01/20 11:53:02 METAR KTYS 011653Z 21009KT 10SM BKN250 07/M03 A3005 RMK AO2 SLP178 T00721028 \$
01	1253	MET11401/01/20 12:53:02 METAR KTYS 011753Z 23009KT 10SM BKN250 08/M04 A3002 RMK AO2 SLP167 T00831039 10083 20006 58018 \$
01	1300	SYN08072326 32966 62309 10083 21039 39807 40167 58018 91753 333 10083 20006 555 90118=
01	1353	MET09601/01/20 13:53:02 METAR KTYS 011853Z 23009KT 10SM BKN250 10/M05 A3000 RMK AO2 SLP159 T01001050 \$
01	1453	MET09601/01/20 14:53:02 METAR KTYS 011953Z VRB03KT 10SM BKN250 10/M05 A2998 RMK AO2 SLP153 T01001050 \$
01	1553	MET10201/01/20 15:53:02 METAR KTYS 012053Z VRB04KT 10SM BKN250 11/M05 A2998 RMK AO2 SLP156 T01061050 55010 \$
01	1600	SYN06472326 32966 6/04 10106 21050 39794 40156 55010 92053 555 90121=
01	1653	MET09601/01/20 16:53:02 METAR KTYS 012153Z 22006KT 10SM BKN250 09/M06 A2998 RMK AO2 SLP155 T00891056 \$
01	1753	MET10201/01/20 17:53:02 METAR KTYS 012253Z 23003KT 10SM BKN250 08/M05 A2999 RMK AO2 SLP157 T00781050 \$ (ALG)
01	1853	MET12001/01/20 18:53:02 METAR KTYS 012353Z 22003KT 10SM BKN250 08/M06 A2998 RMK AO2 SLP155 T00781056 10106 20072 58001 \$ (ALG)
01	1900	SYN08072326 32966 62203 10078 21056 39794 40155 58001 92353 333 10106 20006 555 90200=
01	1953	MET10301/01/20 19:53:01 METAR KTYS 020053Z 18003KT 10SM FEW150 BKN250 07/M06 A2998 RMK AO2 SLP154 T00671056 \$
01	2053	MET10301/01/20 20:53:01 METAR KTYS 020153Z 00000KT 10SM FEW150 BKN250 06/M04 A2997 RMK AO2 SLP153 T00611044 \$
01	2153	MET10901/01/20 21:53:01 METAR KTYS 020253Z 00000KT 10SM FEW150 BKN250 05/M04 A2997 RMK AO2 SLP150 T00501039 56003 \$
01	2200	SYN06472326 32966 60000 10050 21039 39791 40150 56003 90253 555 90203=
01	2253	MET10301/01/20 22:53:01 METAR KTYS 020353Z 00000KT 10SM FEW150 OVC250 04/M04 A2997 RMK AO2 SLP151 T00391039 \$
01	2353	MET11301/01/20 23:53:02 METAR KTYS 020453Z 00000KT 10SM FEW150 OVC250 04/M04 A2996 RMK AO2 SLP146 T00391039 401060006 \$

Local Climatological Data
Hourly Precipitation
January 2020

Generated on 03/09/2021

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																									01	
02								T	0.03	0.01	0.04	0.02	0.06	0.04	0.04	0.03	0.07	0.06	0.09	0.23	0.32	0.29	0.12	0.11	02	
03	0.06	0.74	0.21	0.03	0.05	0.04	T	T		0.01	0.01	0.02	0.02	0.02	0.01	0.01	T	0.01	T	0.01	0.01	0.02	0.03	0.02	03	
04	T	T	T	T	T		0.10s	0.02	0.04	T	0.01					T	T								04	
05																									05	
06																									06	
07		T	0.01	0.02	T	0.51	T	0.08	T																07	
08																									08	
09																									09	
10																									10	
11													M		T		T	0.24	0.25	0.04			0.06	0.01	11	
12																									12	
13																								0.01	13	
14	0.04	0.02		0.01	0.02	0.07	0.25	0.21	0.23	0.09	T	T												T	14	
15			T					T	T	T	0.02									T	T				15	
16	0.02																								16	
17																								T	17	
18											0.01	0.11	0.07	0.03	0.12	0.10	0.04	0.11	T		0.01	T			18	
19																									19	
20										T	T	T	T	T	T	T	T		T	T	T	T	T	T	20	
21	T	T																							21	
22																									22	
23																	T	T					T	0.04	0.07	23
24	0.04	0.12	0.04	0.06	0.12	0.11	0.16	0.11	0.06	0.04			0.07	0.05	T										24	
25											T														25	
26																									26	
27		T	0.01	0.01	T	0.03	0.04	0.01	0.04	0.06	0.05	0.03	T	0.01	0.01										27	
28																									28	
29																		T	T	T	T		T		29	
30																									30	
31										T	T														31	
Maximum Short Duration Precipitation																										
Time Period (Minutes)	5	10	15	20	30	45	60	80	100	120	150	180														
Precipitation (inches)	0.11	0.19	0.27	0.33	0.46	0.67	0.74	0.85	0.93	0.95	0.99	1.02														
Ending Date Time (yyyy-mm-dd hh:mi)	2020-01-03 01:40	2020-01-03 01:15	2020-01-03 01:40	2020-01-03 01:45	2020-01-03 01:39	2020-01-03 01:45	2020-01-03 02:02	2020-01-03 02:20	2020-01-03 02:41	2020-01-03 02:53	2020-01-03 02:53	2020-01-03 02:53														

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