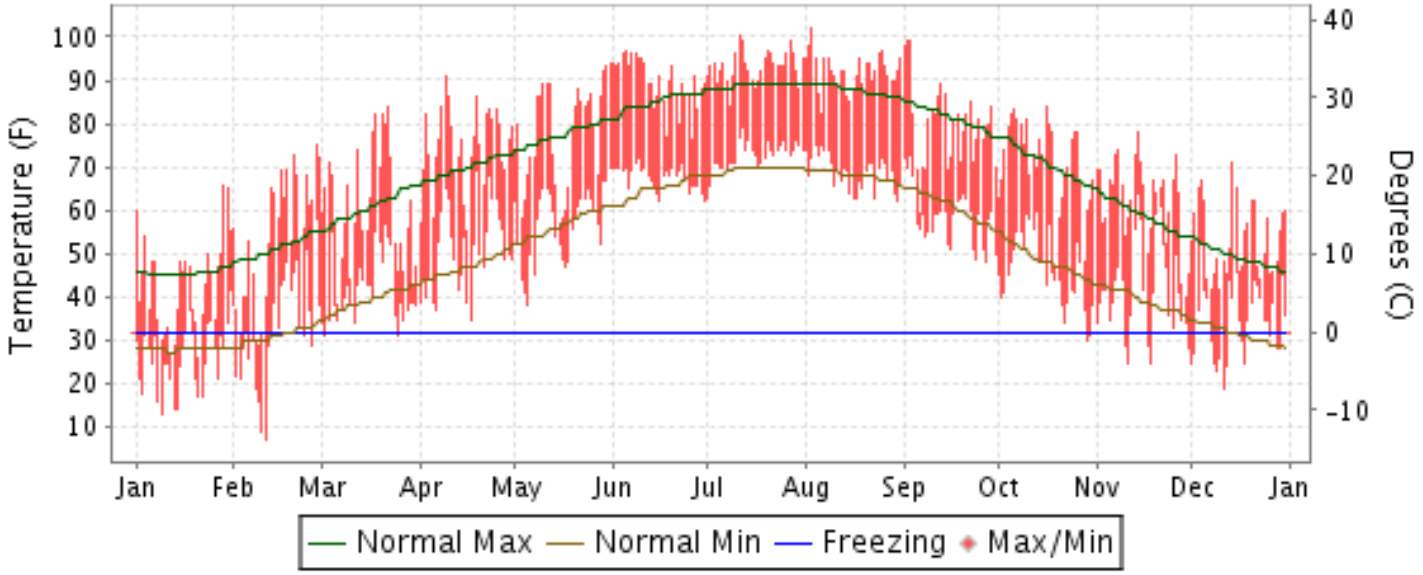
2011
LOCAL CLIMATOLOGICAL DATA
ANNUAL SUMMARY WITH COMPARATIVE DATA

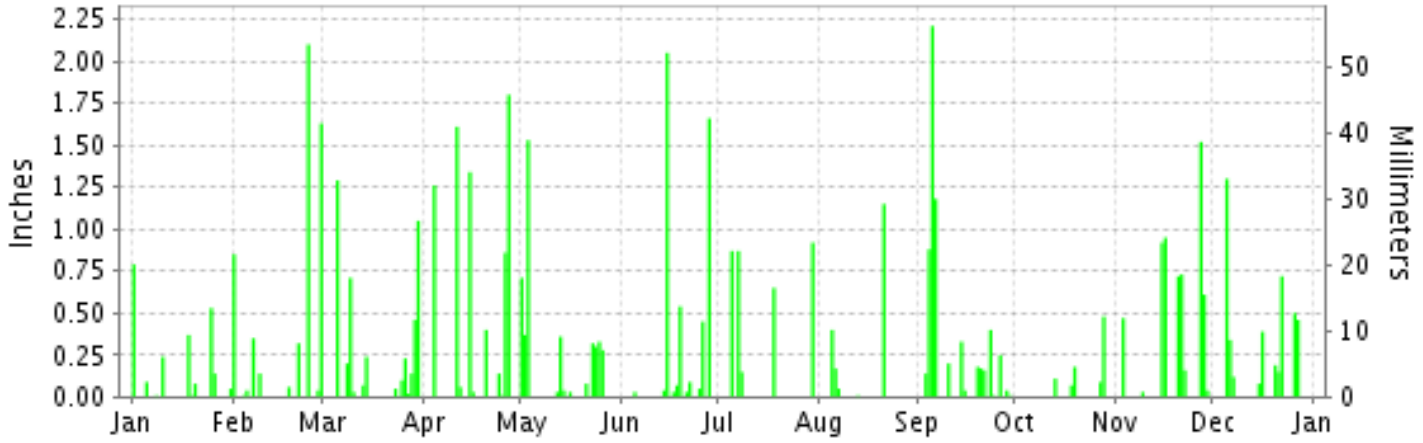
ISSN 0198-4845

NASHVILLE,
TENNESSEE (KBNA)

Daily Max/Min Temperature



Daily Precipitation



Daily Station Pressure

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Thomas R. Karl

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION	NATIONAL ENVIRONMENTAL SATELLITE, DATA AND INFORMATION SERVICE	NATIONAL CLIMATIC DATA CENTER ASHEVILLE, NORTH CAROLINA	DIRECTOR NATIONAL CLIMATIC DATA CENTER

METEOROLOGICAL DATA FOR 2011
NASHVILLE (KBNA)

LATITUDE: 36° 7'N **LONGITUDE:** -86° 41'W **ELEVATION (FT):** GRND: 600 BARO: 574 **TIME ZONE:** CENTRAL (UTC -6) **WBAN:** 13897

	ELEMENT	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
TEMPERATURE °F	MEAN DAILY MAXIMUM	42.9	54.1	61.0	74.7	77.7	89.4	93.1	92.0	79.7	71.3	62.4	53.2	71.0
	HIGHEST DAILY MAXIMUM	66	75	84	91	94	97	100	102	99	84	78	71	102
	DATE OF OCCURRENCE	29	27	22	09	31	05	11	03	03+	16	14+	14	AUG 03
	MEAN DAILY MINIMUM	25.8	33.2	41.7	51.0	56.8	67.7	72.7	68.9	58.6	46.0	41.6	34.5	49.9
	LOWEST DAILY MINIMUM	13	7	31	35	38	62	63	62	48	30	25	19	7
	DATE OF OCCURRENCE	09	11	25+	17	05	30+	01	30	27	29	18+	11	FEB 11
	AVERAGE DRY BULB	34.4	43.7	51.4	62.9	67.3	78.6	82.9	80.5	69.2	58.7	52.0	43.9	60.5
	MEAN WET BULB	31.0	38.5	45.1	55.3	60.7	69.6	73.7	70.1	61.7	50.9	46.9	39.8	53.6
	MEAN DEW POINT	24.9	31.1	38.4	48.5	56.3	65.2	69.9	64.6	57.1	44.0	40.7	34.5	47.9
	NUMBER OF DAYS WITH:													
	MAXIMUM >= 90°	0	0	0	1	3	15	27	24	3	0	0	0	73
	MAXIMUM <= 32°	5	4	0	0	0	0	0	0	0	0	0	0	9
	MINIMUM <= 32°	26	14	2	0	0	0	0	0	0	2	5	13	62
	MINIMUM <= 0°	0	0	0	0	0	0	0	0	0	0	0	0	0
H/C	HEATING DEGREE DAYS	941	589	426	135	96	0	0	0	32	207	387	650	3463
	COOLING DEGREE DAYS	0	2	12	79	173	415	562	488	163	18	6	0	1918
RH	MEAN (PERCENT)	70	64	65	62	70	68	69	62	70	64	69	72	67
	HOUR 00 LST	74	69	71	70	82	80	80	73	82	75	73	77	76
	HOUR 06 LST	79	72	75	80	85	83	85	82	87	84	80	83	81
	HOUR 12 LST	61	57	55	51	57	53	52	48	54	44	60	63	55
	HOUR 18 LST	63	59	60	52	60	56	59	47	59	52	62	65	58
S	PERCENT POSSIBLE SUNSHINE													
W/O	NUMBER OF DAYS WITH:													
	HEAVY FOG(VISBY <= 1/4 MI)	0	2	0	0	0	1	0	0	1	2	1	4	11
	THUNDERSTORMS	1	2	4	7	9	9	4	4	2	0	1	0	43
CLOUDINESS	SUNRISE-SUNSET: (OKTAS)													
	CEILOMETER (<= 12,000 FT.)													
	SATELLITE (> 12,000 FT.)													
	MIDNIGHT-MIDNIGHT: (OKTAS)													
	CEILOMETER (<= 12,000 FT.)													
	SATELLITE (> 12,000 FT.)													
	NUMBER OF DAYS WITH:													
	CLEAR													
	PARTLY CLOUDY													
	CLOUDY													
PR	MEAN STATION PRESS. (IN.)	29.43	29.45	29.43	29.27	29.31	29.33	29.34	29.28	29.34	29.41	29.45	29.55	29.38
	MEAN SEA-LEVEL PRESS. (IN.)	30.10	30.10	30.08	29.92	29.95	29.96	29.97	29.91	29.98	30.06	30.10	30.21	30.03
WINDS	RESULTANT SPEED (MPH)	1.4	1.9	0.4	5.7	2.6	1.1	0.5	0.8	0.8	1.2	3.9	1.5	1.4
	RES. DIR. (TENS OF DEGS.)	31	23	17	20	21	21	15	34	33	27	20	20	22
	MEAN SPEED (MPH)	5.5	8.2	8.7	9.5	6.3	5.2	4.4	4.8	5.6	5.0	8.2	5.8	6.4
	PREVAIL.DIR.(TENS OF DEGS.)	18	18	17	20	18	20	17	18	18	18	17	18	17
	MAXIMUM 2-MINUTE WIND													
	SPEED (MPH)	31	30	32	40	33	38	33	21	31	21	32	26	40
	DIR. (TENS OF DEGS.)	15	19	17	30	28	03	16	03	11	19	20	17	30
	DATE OF OCCURRENCE	01	28	09	27	12	28	07	21	03	26	13	21	APR 27
	MAXIMUM 3-SECOND WIND:													
	SPEED (MPH)	40	38	45	59	47	47	40	31	40	33	45	39	59
	DIR. (TENS OF DEGS.)	16	20	14	29	28	03	14	30	20	22	18	03	29
	DATE OF OCCURRENCE	01	28	09	04	12	28	07	21	26	19	13	06	APR 04
PRECIPITATION	WATER EQUIVALENT:													
	TOTAL (IN.)	2.31	5.54	4.59	7.51	4.38	5.04	3.46	1.78	6.20	0.93	6.15	4.25	52.14
	GREATEST 24-HOUR (IN.)	0.79	2.10	1.51	1.84	1.81	2.05	1.00	1.15	2.34	0.49	1.52	1.63	2.34
	DATE OF OCCURRENCE	01	24	29-30	26-27	02-03	15	07-08	21	04-05	27-28	27	05-06	SEP 04-05
	NUMBER OF DAYS WITH:													
	PRECIPITATION 0.01	10	10	13	10	12	11	5	5	15	5	10	10	116
	PRECIPITATION 0.10	5	6	9	7	8	4	5	3	11	3	8	9	78
	PRECIPITATION 1.00	0	2	2	4	1	2	0	1	2	0	1	1	16
SNOWFALL	SNOW,ICE PELLETS,HAIL	5.9	2.1	0.0	T	0.0	T	0.0	0.0	0.0	0.0	0.0	T	8.0
	TOTAL (IN.)	2.5	1.4	0.0	T	0.0	T	0.0	0.0	0.0	0.0	0.0	T	2.5
	GREATEST 24-HOUR (IN.)	10	09		04		15						07	JAN 10
	DATE OF OCCURRENCE	3	2	0	0	0	0	0	0	0	0	0	0	3
	MAXIMUM SNOW DEPTH (IN.)	10	10											JAN 10
	DATE OF OCCURRENCE													
	NUMBER OF DAYS WITH:													
	SNOWFALL >= 1.0	3	1	0	0	0	0	0	0	0	0	0	0	4

NORMALS, MEANS, AND EXTREMES
NASHVILLE (KBNA)

LATITUDE: 36° 7'N **LONGITUDE:** -86° 41'W **ELEVATION (FT):** GRND: 600 BARO: 574 **TIME ZONE:** CENTRAL (UTC -6) **WBAN:** 13897

	ELEMENT	POR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
TEMPERATURE °F	NORMAL DAILY MAXIMUM	30	45.6	51.4	60.7	69.8	77.5	85.1	88.7	87.8	81.5	71.1	59.0	49.4	69.0
	MEAN DAILY MAXIMUM	64	47.0	51.6	60.6	71.1	79.0	86.6	89.8	89.1	82.8	72.3	59.9	50.2	70.0
	HIGHEST DAILY MAXIMUM	72	78	84	86	91	97	106	107	106	105	94	84	79	107
	YEAR OF OCCURRENCE		1972	1962	2007	2011	1941	1952	1952	2007	1954	1953	2000	1982	JUL 1952
	MEAN OF EXTREME MAXS.	64	68.2	71.9	79.0	85.4	89.4	94.8	97.0	96.5	93.4	85.9	77.4	69.0	84.0
	NORMAL DAILY MINIMUM	30	27.9	31.2	39.4	47.1	56.7	65.0	69.5	68.0	61.0	48.6	39.5	31.5	48.8
	MEAN DAILY MINIMUM	64	28.5	31.3	39.0	48.1	57.1	65.4	69.6	68.3	61.1	48.8	38.9	31.6	49.0
	LOWEST DAILY MINIMUM	72	-17	-13	2	23	34	42	51	47	36	26	-1	-10	-17
	YEAR OF OCCURRENCE		1985	1951	1980	2007	1976	1966	1947	1946	1983	1987	1950	1989	JAN 1985
	MEAN OF EXTREME MINS.	64	8.1	11.9	22.1	31.5	42.3	53.5	60.4	58.7	46.0	32.6	21.5	13.2	33.5
	NORMAL DRY BULB	30	36.8	41.3	50.1	58.5	67.1	75.1	79.1	77.9	71.3	59.9	49.3	40.5	58.9
	MEAN DRY BULB	64	37.8	41.4	49.7	59.6	68.1	76.1	79.7	78.7	72.0	60.5	49.4	40.9	59.5
	MEAN WET BULB	28	33.1	36.0	42.8	51.0	60.3	67.6	70.7	69.6	63.4	52.8	43.9	36.1	52.3
	MEAN DEW POINT	28	30.0	32.6	38.6	47.1	57.6	65.6	68.8	67.7	61.1	50.1	40.8	33.1	49.4
	NORMAL NO. DAYS WITH:														
	MAXIMUM >= 90	30	0.0	0.0	0.0	0.1	1.0	8.8	17.1	13.1	5.7	0.1	0.0	0.0	45.9
	MAXIMUM <= 32	30	4.5	2.3	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	2.2	9.3
	MINIMUM <= 32	30	20.6	15.6	8.4	1.9	0.0	0.0	0.0	0.0	0.0	1.1	8.1	17.0	72.7
	MINIMUM <= 0	30	0.5	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.9
H/C	NORMAL HEATING DEG. DAYS	30	859	664	462	217	56	2	0	0	24	189	460	744	3677
	NORMAL COOLING DEG. DAYS	30	0	0	9	37	136	321	453	416	229	46	5	0	1652
RH	NORMAL (PERCENT)	30	71	68	64	63	70	71	72	73	73	70	70	72	70
	HOUR 00 LST	30	76	74	71	72	82	84	84	84	84	81	77	77	79
	HOUR 06 LST	30	80	80	78	81	86	87	89	90	90	87	82	81	84
	HOUR 12 LST	30	64	59	54	51	56	56	57	56	57	53	59	64	57
	HOUR 18 LST	30	67	60	55	52	58	60	62	61	63	60	64	67	61
S	PERCENT POSSIBLE SUNSHINE	55	41	47	52	59	60	65	63	63	62	62	50	42	56
W/O	MEAN NO. DAYS WITH:														
	HEAVY FOG(VISBY <= 1/4 MI)	48	1.9	1.3	1.0	0.5	1.2	1.0	0.7	1.4	1.8	2.1	1.6	1.5	16.0
	THUNDERSTORMS	64	1.3	1.6	3.8	5.0	7.2	8.3	9.0	7.2	3.5	1.5	1.6	0.9	50.9
CLOUDINESS	MEAN:														
	SUNRISE-SUNSET (OKTAS)	56	5.7	5.4	5.3	4.9	4.8	4.5	4.4	4.2	4.2	3.9	4.8	5.3	4.8
	MIDNIGHT-MIDNIGHT (OKTAS)	32	5.3	5.1	5.0	4.6	4.6	4.1	4.0	3.8	4.0	3.6	4.7	5.0	4.5
	MEAN NO. DAYS WITH:														
	CLEAR	55	6.3	6.9	7.5	8.3	8.0	8.0	8.1	9.9	10.5	12.8	8.8	7.1	102.2
	PARTLY CLOUDY	55	6.1	5.9	7.2	8.5	10.1	12.5	13.2	12.2	9.1	8.0	6.8	7.0	106.6
	CLOUDY	55	18.5	15.5	16.3	13.2	13.0	9.5	9.7	8.9	10.4	10.2	14.4	17.0	156.6
PR	MEAN STATION PRESSURE(IN)	28	29.49	29.46	29.40	29.35	29.36	29.35	29.38	29.38	29.41	29.45	29.47	29.50	29.42
	MEAN SEA-LEVEL PRES. (IN)	28	30.16	30.12	30.06	30.00	30.00	29.98	30.01	30.02	30.04	30.09	30.13	30.16	30.06
WINDS	MEAN SPEED (MPH)	28	8.2	8.4	8.7	8.2	7.1	6.3	6.1	5.8	6.1	6.4	7.5	8.0	7.2
	PREVAIL.DIR(TENS OF DEGS)	43	19	19	19	19	19	19	19	19	19	19	19	19	19
	MAXIMUM 2-MINUTE:														
	SPEED (MPH)	15	40	37	39	40	33	38	58	43	31	37	37	38	58
	DIR. (TENS OF DEGS)		13	17	17	30	28	03	03	27	11	20	16	16	03
	YEAR OF OCCURRENCE		2008	2008	1999	2011	2011	2011	2004	2003	2011	2010	2005	2009	JUL 2004
	MAXIMUM 3-SECOND														
	SPEED (MPH)	15	61	51	48	59	47	47	67	59	41	55	48	52	67
	DIR. (TENS OF DEGS)		26	25	16	29	28	03	02	33	17	27	33	16	02
	YEAR OF OCCURRENCE		1999	2009	1999	2011	2011	2011	2004	2003	2008	2007	2007	2009	JUL 2004
PRECIPITATION	NORMAL (IN)	30	3.97	3.69	4.87	3.93	5.07	4.08	3.77	3.28	3.59	2.87	4.45	4.54	48.11
	MAXIMUM MONTHLY (IN)	72	13.92	10.31	12.35	8.41	16.43	11.95	7.75	8.31	11.44	6.49	9.04	13.63	16.43
	YEAR OF OCCURRENCE		1950	1956	1975	1984	2010	1998	1950	1942	1979	2009	1945	1978	MAY 2010
	MINIMUM MONTHLY (IN)	72	0.19	0.64	1.18	0.52	0.69	0.45	0.71	0.69	0.28	T	0.54	0.98	0.19
	YEAR OF OCCURRENCE		1986	1968	1987	1986	1941	1988	1954	1968	1956	1963	1949	1985	JAN 1986
	MAXIMUM IN 24 HOURS (IN)	72	4.40	4.73	4.66	3.29	9.09	5.24	4.32	5.34	6.68	3.75	4.20	5.12	9.09
	YEAR OF OCCURRENCE		1946	1989	1975	1979	2010	1998	1992	1963	1979	1975	1997	1978	MAY 2010
	NORMAL NO. DAYS WITH:														
	PRECIPITATION >= 0.01	30	11.1	10.1	12.1	10.7	11.3	9.7	10.0	8.4	8.3	7.4	10.1	11.0	120.2
	PRECIPITATION >= 1.00	30	0.9	0.7	1.0	1.2	1.5	1.1	1.1	1.0	0.9	0.8	1.2	1.5	12.9
SNOWFALL	NORMAL (IN)	30	3.9	3.4	1.1	0.1	0.0	0.0	0.0	0.0	0.0	0.*	0.1	0.5	9.1
	MAXIMUM MONTHLY (IN)	64	18.8	18.9	16.1	1.1	0.0	T	T	T	0.0	0.4	9.2	13.2	18.9
	YEAR OF OCCURRENCE		1948	1979	1960	1971		2011	2007	1989		1993	1950	1963	FEB 1979
	MAXIMUM IN 24 HOURS (IN)	64	8.1	8.3	8.8	1.1	0.0	T	T	T	0.0	0.4	9.2	10.2	10.2
	YEAR OF OCCURRENCE'		1988	1979	1951	1971		2011	2007	1989		1993	1950	1963	DEC 1963
	MAXIMUM SNOW DEPTH (IN)	55	70	8	7	0	0	0	0	0	0	0	5	7	70
	YEAR OF OCCURRENCE		1948	1979	1968								1966	1963	JAN 1948
	NORMAL NO. DAYS WITH:														
	SNOWFALL >= 1.0	30	1.0	1.2	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	2.8

PRECIPITATION (inches) 2011 NASHVILLE (KBNA)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1982	6.50	4.80	3.00	4.36	4.19	2.28	5.47	3.46	3.23	1.91	3.87	6.36	49.43
1983	2.56	2.93	3.44	6.80	11.04	3.93	1.71	1.36	0.45	2.77	6.98	7.75	51.72
1984	1.79	2.38	5.14	8.41	9.68	4.49	6.63	2.42	0.97	6.00	6.20	2.38	56.49
1985	3.02	3.30	2.70	2.91	2.65	1.53	2.00	3.91	2.52	1.59	3.81	0.98	30.92
1986	0.19	3.59	2.29	0.52	3.36	2.38	0.77	3.38	2.19	2.19	7.43	3.31	31.60
1987	1.61	4.87	1.18	1.03	4.41	2.82	2.56	0.73	1.95	0.21	3.40	5.46	30.23
1988	3.73	2.02	2.18	2.09	1.86	0.45	3.26	2.39	2.45	1.54	5.49	3.95	31.41
1989	4.52	9.36	5.31	2.68	4.61	7.87	3.18	3.67	6.30	3.62	3.94	1.97	57.03
1990	2.76	4.73	3.26	1.60	2.80	2.37	4.86	3.12	2.13	4.41	4.29	10.76	47.09
1991	2.92	5.44	4.25	3.35	5.63	1.25	2.82	1.79	5.47	3.88	2.87	7.27	46.94
1992	2.97	2.60	4.50	0.77	3.12	4.31	5.89	3.25	3.45	1.62	4.48	2.88	39.84
1993	2.76	3.33	5.50	3.33	4.50	5.31	3.64	1.76	2.90	2.20	2.53	6.62	44.38
1994	4.36	6.18	7.56	5.72	3.76	8.08	4.82	5.05	4.20	3.31	4.04	2.69	59.77
1995	5.61	1.81	3.87	3.95	7.66	3.69	1.95	3.40	5.00	5.60	3.98	2.32	48.84
1996	3.82	2.46	5.15	3.68	4.48	3.68	5.45	1.09	4.89	3.16	6.00	4.77	48.63
1997	4.19	3.10	9.64	2.42	4.92	6.66	3.26	3.52	5.75	2.71	6.59	2.19	54.95
1998	3.68	4.11	3.13	6.31	4.46	11.95	4.63	2.93	1.39	1.59	1.30	6.53	52.01
1999	9.28	2.33	4.27	2.29	4.35	3.56	3.19	3.05	1.97	2.04	2.99	2.50	41.82
2000	3.52	3.75	3.34	6.23	7.66	1.74	2.25	1.95	1.90	0.26	6.39	3.44	42.43
2001	3.21	8.54	2.73	2.42	5.54	4.47	2.77	4.07	1.79	4.61	5.09	3.32	48.56
2002	4.93	1.99	9.40	4.31	3.98	3.76	5.64	3.13	6.29	4.48	2.91	5.81	56.63
2003	1.59	8.47	2.30	4.69	10.73	7.08	2.87	3.88	8.70	1.80	4.17	3.19	59.47
2004	3.60	5.77	4.81	6.69	6.90	3.39	3.19	4.24	4.55	4.90	5.21	5.93	59.18
2005	4.42	3.84	3.90	6.93	1.03	2.70	2.39	6.89	1.44	0.02	3.29	2.46	39.31
2006	6.57	2.69	2.90	4.14	4.95	2.19	2.64	5.20	4.00	2.98	4.05	3.41	45.72
2007	3.32	1.84	2.26	2.75	3.30	2.37	1.47	1.38	1.99	4.95	6.20	3.83	35.66
2008	4.76	2.53	5.56	7.20	5.54	2.21	4.32	1.67	0.88	5.03	1.75	6.72	48.17
2009	4.59	2.85	2.92	4.13	8.45	4.53	6.03	2.14	11.08	6.49	0.67	3.99	57.87
2010	4.13	2.77	3.52	3.48	16.43	4.96	5.86	6.99	1.17	2.49	5.41	1.87	59.08
2011	2.31	5.54	4.59	7.51	4.38	5.04	3.46	1.78	6.20	0.93	6.15	4.25	52.14
POR= 64 YRS	4.32	4.11	4.83	4.21	4.96	3.97	3.76	3.28	3.56	2.77	4.00	4.43	48.20

WBAN : 13897

AVERAGE TEMPERATURE (°F) 2011 NASHVILLE (KBNA)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1982	34.0	39.5	52.5	54.6	71.0	73.3	79.8	76.1	69.6	61.1	51.4	48.2	59.3
1983	38.8	42.7	50.3	54.5	64.8	75.5	80.5	83.2	73.7	62.4	49.9	34.0	59.2
1984	32.2	43.4	46.1	58.2	64.2	77.4	76.1	76.5	68.6	66.7	46.0	49.6	58.8
1985	27.8	36.5	53.2	61.9	68.4	75.7	80.2	77.2	70.8	64.4	56.9	34.2	58.9
1986	37.2	44.7	50.8	60.8	68.6	76.5	82.4	76.7	74.9	61.0	49.9	39.9	60.3
1987	36.1	43.1	51.8	57.7	73.4	77.5	80.2	81.1	72.2	54.6	52.4	44.1	60.4
1988	34.4	38.7	49.3	57.1	67.3	77.3	81.4	81.9	72.8	54.2	51.1	42.4	59.0
1989	44.9	39.0	52.6	59.3	65.7	74.7	79.1	78.0	70.5	61.0	51.4	29.5	58.8
1990	45.8	49.9	53.6	58.4	66.4	78.2	80.4	79.6	74.7	60.1	54.3	43.7	62.1
1991	39.2	43.9	52.5	63.8	74.2	78.2	81.1	78.3	72.3	61.2	47.2	44.5	61.4
1992	40.0	45.9	50.1	59.6	65.8	72.4	79.9	74.9	70.9	59.4	49.5	41.2	59.1
1993	41.6	39.3	47.1	56.7	67.6	75.9	83.3	81.0	71.0	58.6	47.4	40.3	59.2
1994	33.4	44.0	50.7	62.5	64.1	78.1	78.5	77.1	69.1	61.0	54.5	45.3	59.9
1995	38.6	40.4		60.9	68.5	74.7	80.8	83.3	70.7	60.0	44.0	39.5	
1996	36.3	40.6	44.6	55.8	71.5	75.6	77.6	77.5	69.5	60.8	45.7	44.4	58.3
1997	37.3	45.6	53.6	54.4	63.2	72.0	79.8	76.9	71.9	59.8	45.5	39.5	58.3
1998	44.7	46.0	49.4	57.9	71.5	77.6	79.6	79.2	77.1	63.5	52.3	43.1	61.8
1999	42.5	45.8	45.6	62.6	67.6	76.5	81.9	79.4	71.9	59.9	54.0	43.7	61.0
2000	39.2	46.7	53.1	56.7	69.9	76.4	80.3	79.8	71.3	63.8	48.0	30.8	59.7
2001	35.4	44.7	45.3	63.7	68.8	73.4	79.8	78.8	70.2	58.5	54.3	44.9	59.8
2002	42.2	40.6	49.6	62.0	65.7	76.9	80.1	80.0	75.0	61.4	46.4	40.5	60.0
2003	32.9	38.0	52.0	61.2	67.2	71.9	78.3	79.3	70.2	60.6	53.5	40.3	58.8
2004	38.6	40.7	53.3	59.4	71.7	75.6	77.7	74.3	72.1	64.5	53.6	40.0	60.1
2005	43.4	45.0	47.6	59.7	66.1	76.9	81.1	81.8	75.1	61.1	51.3	37.6	60.6
2006	46.2	40.7	51.1	65.2	66.7	75.7	80.6	82.2	71.4	59.5	51.5	46.4	61.4
2007	41.7	37.2	58.3	57.4	71.2	78.0	79.9	86.9	75.8	65.5	49.8	46.3	62.3
2008	37.0	42.9	50.2	58.1	66.8	78.1	79.6	79.0	73.9	60.2	46.4	40.7	59.4
2009	35.2	43.8	52.1	59.0	67.7	78.0	75.8	77.1	72.3	56.9	51.3	39.3	59.0
2010	33.0	34.5	48.8	62.8	70.2	80.9	82.4	81.9	73.5	61.4	50.9	34.4	59.6
2011	34.4	43.7	51.4	62.9	67.3	78.6	82.9	80.5	69.2	58.7	52.0	43.9	60.5
POR= 64 YRS	37.8	41.4	49.7	59.6	68.1	76.1	79.7	78.7	72.0	60.5	49.4	40.9	59.5

HEATING DEGREE DAYS (base 65°F) 2011 NASHVILLE (KBNA)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1982-83	0	0	30	194	413	537	806	620	458	322	71	0	3451
1983-84	0	0	45	121	447	956	1009	621	578	220	106	0	4103
1984-85	0	0	59	63	564	473	1146	794	383	145	25	6	3658
1985-86	0	0	30	91	264	948	854	561	432	171	55	0	3406
1986-87	0	3	0	175	447	773	889	608	401	242	6	0	3544
1987-88	0	0	7	317	376	640	941	756	485	242	43	2	3809
1988-89	0	0	5	343	408	693	618	721	397	258	90	0	3533
1989-90	0	0	36	158	408	1095	590	422	373	245	65	1	3393
1990-91	0	0	21	195	323	654	791	586	402	80	9	0	3061
1991-92	0	0	42	166	535	628	768	544	456	217	85	2	3443
1992-93	0	0	26	181	461	731	717	713	552	252	32	4	3669
1993-94	0	0	27	227	528	759	974	585	437	134	90	0	3761
1994-95	0	0	21	144	316	605	814	683		175	42	0	
1995-96	0	0	31	184	624	783	886	702	626	292	32	0	4160
1996-97	0	0	25	160	572	634	851	538	357	319	107	4	3567
1997-98	0	0	0	227	576	785	622	527	505	209	19	5	3475
1998-99	0	0	0	111	375	671	686	531	595	125	10	0	3104
1999-00	0	0	18	185	322	654	796	523	364	248	14	0	3124
2000-01	0	0	32	123	518	1051	912	565	602	124	17	7	3951
2001-02	0	0	47	218	315	617	704	677	477	171	89	0	3315
2002-03	0	0	2	161	554	752	991	748	393	147	24	8	3780
2003-04	0	0	26	150	341	761	814	698	365	201	39	0	3395
2004-05	0	3	4	63	346	767	664	554	531	179	75	0	3186
2005-06	0	0	2	196	419	845	578	677	439	97	69	0	3322
2006-07	0	0	15	222	407	568	714	774	255	269	17	0	3241
2007-08	0	0	0	102	451	571	861	636	453	224	46	0	3344
2008-09	0	0	0	202	552	747	918	583	399	229	41	0	3671
2009-10	0	0	11	253	406	791	984	849	495	119	40	0	3948
2010-11	0	0	7	141	416	941	941	589	426	135	96	0	3692
2011-	0	0	32	207	387	650							

WBAN : 13897

COOLING DEGREE DAYS (base 65°F) 2011 NASHVILLE (KBNA)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1982	0	0	37	4	199	256	470	352	177	84	12	21	1612
1983	0	0	9	12	69	320	488	568	315	49	2	0	1832
1984	0	0	0	21	87	382	352	364	173	121	0	1	1501
1985	0	2	24	59	137	335	479	386	206	79	29	0	1736
1986	0	0	1	52	174	352	551	371	304	59	0	0	1864
1987	0	0	0	31	272	381	479	507	227	3	7	0	1907
1988	0	0	5	17	120	380	515	531	246	17	0	0	1831
1989	0	0	21	93	120	298	446	408	208	39	8	0	1641
1990	0	4	26	51	115	401	485	458	315	52	10	0	1917
1991	0	0	22	50	300	403	507	419	268	57	4	0	2030
1992	0	0	0	60	115	233	471	311	208	15	2	0	1415
1993	0	0	1	9	121	336	573	506	215	33	7	0	1801
1994	0	3	0	66	67	400	426	381	152	26	8	0	1529
1995	0	0		60	158	297	496	573	210	34	1	0	
1996	0	4	0	22	240	324	397	395	166	35	0	2	1585
1997	0	0	13	6	61	222	465	374	211	72	0	0	1424
1998	0	0	27	5	227	391	459	447	370	69	1	1	1997
1999	0	0	0	60	100	354	533	453	229	35	1	0	1765
2000	2	0	6	6	172	346	483	467	227	95	18	0	1822
2001	0	0	0	93	146	264	468	437	209	27	2	0	1646
2002	3	0	6	87	118	364	474	471	310	55	4	0	1892
2003	0	0	0	40	99	221	417	451	187	22	5	0	1442
2004	4	0	10	38	252	323	398	297	226	52	11	0	1611
2005	0	0	0	26	118	363	502	530	313	83	15	0	1950
2006	0	0	14	112	126	327	491	540	216	58	8	0	1892
2007	0	0	53	49	214	395	473	688	330	122	0	1	2325
2008	0	3	2	25	109	401	458	439	273	62	0	1	1773
2009	0	0	7	56	132	395	340	383	238	8	0	0	1559
2010	0	0	0	59	210	480	547	530	267	37	0	0	2130
2011	0	2	12	79	173	415	562	488	163	18	6	0	1918

SNOWFALL (inches) 2011 NASHVILLE (KBNA)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1982-83	0.0	0.0	0.0	0.0	0.0	0.4	0.3	0.8	T	0.0	0.0	0.0	1.5
1983-84	0.0	0.0	0.0	0.0	0.0	0.7	5.3	3.7	T	0.0	0.0	0.0	9.7
1984-85	0.0	0.0	0.0	0.0	0.0	0.8	9.8	8.0	0.0	0.0	0.0	0.0	18.6
1985-86	0.0	0.0	0.0	0.0	0.0	0.5	0.4	2.1	T	0.0	0.0	0.0	3.0
1986-87	0.0	0.0	0.0	0.0	0.0	T	1.4	1.3	1.6	T	0.0	0.0	4.3
1987-88	0.0	0.0	0.0	0.0	T	T	8.6	1.4	T	0.0	0.0	0.0	10.0
1988-89	0.0	0.0	0.0	0.0	0.0	1.6	T	5.2	0.0	0.0	0.0	0.0	6.8
1989-90	0.0	T	0.0	T	T	0.4	T	T	0.4	0.0	0.0	0.0	0.8
1990-91	0.0	0.0	0.0	0.0	0.0	0.3	T	0.6	1.1	0.0	0.0	0.0	2.0
1991-92	0.0	0.0	0.0	0.0	T	0.0	T	0.0	1.0	0.0	0.0	0.0	1.0
1992-93	0.0	0.0	0.0	0.0	T	0.3	T	5.9	2.8	T	0.0	T	9.0
1993-94	0.0	0.0	0.0	0.4	T	0.3	2.3	1.0	T	T	0.0	T	4.0
1994-95	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.3	0.1	0.0	0.0	0.0	2.9
1995-96	0.0	0.0	0.0	0.0	T	0.4	6.2	7.8	9.3	0.0	0.0		
1996-97								0.2					
1997-98													
1998-99									1.0				
1999-00													
2000-01													
2001-02													
2002-03							8.4						
2003-04													
2004-05													
2005-06						T	0.5	1.2	T	T	0.0	T	
2006-07	0.0	0.0	0.0	0.0	0.0	T	T	2.2	0.0	T	0.0	0.0	2.2
2007-08	T	0.0	0.0	0.0	T	T	T	1.2	0.8	0.0	0.0	0.0	2.0
2008-09	0.0	0.0	0.0	0.0	T	1.0	0.4	T	0.3	0.0	0.0	T	1.7
2009-10	0.0	0.0	0.0	0.0	0.0	T	4.8	2.3	T	T	0.0	0.0	7.1
2010-11	0.0	0.0	0.0	0.0	T	4.5	5.9	2.1	0.0	T	0.0	T	12.5
2011-	0.0	0.0	0.0	0.0	0.0	T							
POR= 63 YRS	T	T	0.0	T	0.4	1.0	3.4	2.5	1.2	T	0.0	T	8.5

WBAN : 13897

REFERENCE NOTES :

PAGE 1:
THE TEMPERATURE GRAPH SHOWS NORMAL MAXIMUM AND NORMAL MINIMUM DAILY TEMPERATURES (SOLID CURVES) AND THE ACTUAL DAILY HIGH AND LOW TEMPERATURES (VERTICAL BARS).

PAGE 2 AND 3:
H/C INDICATES HEATING AND COOLING DEGREE DAYS.
RH INDICATES RELATIVE HUMIDITY
W/O INDICATES WEATHER AND OBSTRUCTIONS
S INDICATES SUNSHINE.
PR INDICATES PRESSURE.
CLOUDINESS ON PAGE 3 IS THE SUM OF THE CEILOMETER AND SATELLITE DATA NOT TO EXCEED EIGHT EIGHTHS(OKTAS).

GENERAL:
T INDICATES TRACE PRECIPITATION, AN AMOUNT GREATER THAN ZERO BUT LESS THAN THE LOWEST REPORTABLE VALUE.
+ INDICATES THE VALUE ALSO OCCURS ON EARLIER DATES.
BLANK ENTRIES DENOTE MISSING OR UNREPORTED DATA.
NORMALS ARE 30-YEAR AVERAGES (1971 - 2000).
ASOS INDICATES AUTOMATED SURFACE OBSERVING SYSTEM.
PM INDICATES THE LAST DAY OF THE PREVIOUS MONTH.
POR (PERIOD OF RECORD) BEGINS WITH THE JANUARY DATA MONTH AND IS THE NUMBER OF YEARS USED TO COMPUTE THE MEAN. INDIVIDUAL MONTHS WITHIN THE POR MAY BE MISSING.
WHEN THE POR FOR A NORMAL IS LESS THAN 30 YEARS, THE NORMAL IS PROVISIONAL AND IS BASED ON THE NUMBER OF YEARS INDICATED.
0.* OR * INDICATES THE VALUE OR MEAN-DAYS-WITH IS BETWEEN 0.00 AND 0.05.
CLOUDINESS FOR ASOS STATIONS DIFFERS FROM THE NON-ASOS OBSERVATION TAKEN BY A HUMAN OBSERVER. ASOS STATION CLOUDINESS IS BASED ON TIME-AVERAGED CEILOMETER DATA FOR CLOUDS AT OR BELOW 12,000 FEET AND ON SATELLITE DATA FOR CLOUDS ABOVE 12,000 FEET.
THE NUMBER OF DAYS WITH CLEAR, PARTLY CLOUDY, AND CLOUDY CONDITIONS FOR ASOS STATIONS IS THE SUM OF THE CEILOMETER AND SATELLITE DATA FOR THE SUNRISE TO SUNSET PERIOD.
CLEAR INDICATES 0 - 2 OKTAS, PARTLY CLOUDY INDICATES 3 - 6 OKTAS, AND CLOUDY INDICATES 7 OR 8 OKTAS. WHEN AT LEAST ONE OF THE ELEMENTS (CEILOMETER OR SATELLITE) IS MISSING, THE DAILY CLOUDINESS IS NOT COMPUTED.

GENERAL CONTINUED:
WIND DIRECTION IS RECORDED IN TENS OF DEGREES (2 DIGITS) CLOCKWISE FROM TRUE NORTH. "00" INDICATES CALM. "36" INDICATES TRUE NORTH.
RESULTANT WIND IS THE VECTOR AVERAGE OF THE SPEED AND DIRECTION.
AVERAGE TEMPERATURE IS THE SUM OF THE MEAN DAILY MAXIMUM AND MINIMUM TEMPERATURE DIVIDED BY 2.
SNOWFALL DATA COMPRISE ALL FORMS OF FROZEN PRECIPITATION, INCLUDING HAIL.
A HEATING (COOLING) DEGREE DAY IS THE DIFFERENCE BETWEEN THE AVERAGE DAILY TEMPERATURE AND 65 F.
DRY BULB IS THE TEMPERATURE OF THE AMBIENT AIR.
DEW POINT IS THE TEMPERATURE TO WHICH THE AIR MUST BE COOLED TO ACHIEVE 100 PERCENT RELATIVE HUMIDITY.
WET BULB IS THE TEMPERATURE THE AIR WOULD HAVE IF THE MOISTURE CONTENT WAS INCREASED TO 100 PERCENT RELATIVE HUMIDITY.
ON JULY 1, 1996, THE NATIONAL WEATHER SERVICE BEGAN USING THE "METAR" OBSERVATION CODE THAT WAS ALREADY EMPLOYED BY MOST OTHER NATIONS OF THE WORLD. THE MOST NOTICEABLE DIFFERENCE IN THIS ANNUAL PUBLICATION WILL BE THE CHANGE IN UNITS FROM TENTHS TO EIGHTS(OKTAS) FOR REPORTING THE AMOUNT OF SKY COVER.
STATION HISTORY STOPPED WITH THE 2009 ANNUAL. IF YOU NEED HISTORY GO TO "MULTI-NETWORK MEDADATA SYSTEM", URL IS: https://mi3.ncdc.noaa.gov/mi3qry/login.cfm
SNOWFALL STOPPED MONTH & YEAR INDICATED ABOVE. NO FURTHER YEARS INCLUDED UNLESS RESTARTED.

NOTE:
The "Period of Record:(POR) for all "averages" is based on the "Summary of the Day First Order Station" and "Cooperative Summary of the Day" archives.

2011
NASHVILLE
TENNESSEE (KBNA)

The city of Nashville is located on the Cumberland River, in the northwestern corner of the Central Basin of middle Tennessee near the escarpment of the Highland Rim. The Rim, as it is called, rises to the height of 300 to 400 feet above the mean elevation of the basin, forming an amphitheater about the city from the southwest to the southeast, with the south being more or less open but undulating.

Temperatures are moderate, with great extremes of either heat or cold rarely occurring, yet there are changes of sufficient amplitude and frequency to give variety.

Based on the 1951-1980 period, the average first occurrence of 32 degrees Fahrenheit in the fall is October 29 and the average last occurrence in the spring is April 5.

Humidity is an important phase of climate in relation to bodily health and comfort. The Nashville records show that the average relative humidity is moderate as compared with the general conditions east of the Mississippi River and south of the Ohio.

Nashville is not in the most frequented path of general storms that cross the country, however, it is in the zone of moderate frequency of thunderstorms. The thunderstorm season usually begins in the latter part of March and continues through September.

Station History

NASHVILLE, TN

NAME	Begin Date	End Date	Latitude	Longitude	Elevation Feet	Relocation	Platform
NASHVILLE BERRY FIELD	1948-08-01	1964-01-01	36° 7'	-86° 40'	581		AIRWAYS,COOP
NASHVILLE METRO AP	1976-01-01	1981-12-31	36° 7'	-86° 40'	590		COOP,WXSVC
NASHVILLE BERRY FIELD	1937-01-01	1948-08-01	36° 7'	-86° 40'			AIRWAYS
NASHVILLE METRO AP	1981-12-31	1996-06-01	36° 7'	-86° 40'	590		COOP
NASHVILLE INTL AP	2001-09-18	2004-08-18	36° 7'	-86° 40'	600		ASOS,COOP
NASHVILLE INTL AP	2009-07-23	2011-04-14	36° 7'	-86° 41'	600	3612 FT SOUTH	AIRSAMPLE,ASOS,COOP
NASHVILLE INTL AP	2011-04-14	Present	36° 7'	-86° 41'	600		AIRSAMPLE,ASOS,COOP
NASHVILLE BERRY FIELD	1964-01-01	1964-08-10	36° 7'	-86° 40'	600		AIRWAYS,COOP
NASHVILLE METRO AP	1964-08-10	1969-01-01	36° 7'	-86° 40'	600		AIRWAYS,COOP
NASHVILLE METRO AP	1969-01-01	1976-01-01	36° 7'	-86° 40'	600		COOP,WXSVC
NASHVILLE INTL AP	2006-06-15	2007-07-29	36° 7'	-86° 41'	600		ASOS,COOP
NASHVILLE INTL AP	1996-06-01	2001-09-18	36° 7'	-86° 41'	580		ASOS,COOP
NASHVILLE INTL AP	2004-08-18	2006-06-15	36° 7'	-86° 40'	600		ASOS,COOP
NASHVILLE INTL AP	2007-07-29	2009-07-23	36° 7'	-86° 41'	600		AIRSAMPLE,ASOS,COOP

Element History

Element	Begin Date	End Date	Frequency	Time Of Observation	Equipment *	Equipment * Modifications	Equipment Exposure
TEMP	1928-12-01	1952-07-01	DAILY	2400			
PRECIP	1996-06-01	2001-09-18	DAILY	2400	TB	RCRD	
TEMP	2001-09-18	2004-08-18	DAILY	2400	ATEMP		
PRECIP	2004-11-10	2006-06-15	DAILY	2400	PCPN1		
SNOWDPTH	2007-07-29	2009-07-23	DAILY	0600	SNOW2		
SNOWDPTH	2009-07-23	2011-04-14	DAILY	0600	SNOW2		
TEMP	1992-05-28	1995-07-01	DAILY	2400	HYGR		
PRECIP	1996-06-01	2001-09-18	HOURLY	2400	TB	RCRD	
PRECIP	2001-09-18	2004-08-18	HOURLY	2400	TB	RCRD	
TEMP	2004-11-10	2006-06-15	DAILY	2400	ATEMP		
SNOWWTREQ	2011-04-14	Present	DAILY	0600	SNOW2		
PRECIP	1952-07-01	1992-05-28	DAILY	2400	UNIV	RCRD	
PRECIP	1995-07-01	1996-06-01	DAILY	2400	UNIV	RCRD	
TEMP	2006-06-15	2007-07-29	DAILY	2400	ATEMP		
SNOWWTREQ	2007-07-29	2009-07-23	DAILY	0600	SNOW2		
PRECIP	2011-04-14	Present	DAILY	2400	PCPNX		
PRECIP	2004-08-18	2004-11-10	HOURLY	2400	TB	RCRD	
PRECIP	2007-07-29	2009-07-23	DAILY	2400	PCPN1		
TEMP	2009-07-23	2011-04-14	DAILY	2400	ATEMP		
PRECIP	1928-12-01	1952-07-01	DAILY	2400	UNIV	RCRD	
PRECIP	1992-05-28	1995-07-01	DAILY	2400	UNIV	RCRD	
TEMP	1995-07-01	1996-06-01	DAILY	2400	HYGR		
PRECIP	2004-08-18	2004-11-10	DAILY	2400	PCPN1		
SNOWWTREQ	2004-11-10	2006-06-15	DAILY	0600	SNOW2		
SNOWDPTH	2006-06-15	2007-07-29	DAILY	0600	SNOW2		
PRECIP	2007-07-29	2009-07-23	HOURLY	2400	TB	RCRD	
TEMP	2011-04-14	Present	DAILY	2400	ATEMP		
PRECIP	1952-07-01	1992-05-28	HOURLY	2400			
PRECIP	1995-07-01	1996-06-01	HOURLY	2400	UNIV	RCRD	
TEMP	2007-07-29	2009-07-23	DAILY	2400	ATEMP		
PRECIP	2009-07-23	2011-04-14	DAILY	2400	PCPNX		
PRECIP	2011-04-14	Present	HOURLY	2400	AHTB	RCRD;HTD	
PRECIP	1992-05-28	1995-07-01	HOURLY	2400			
PRECIP	2001-09-18	2004-08-18	DAILY	2400	TB	RCRD	
SNOWDPTH	2004-11-10	2006-06-15	DAILY	0600	SNOW2		
PRECIP	2004-11-10	2006-06-15	HOURLY	2400	TB	RCRD	
PRECIP	2006-06-15	2007-07-29	DAILY	2400	PCPNX		
PRECIP	2006-06-15	2007-07-29	HOURLY	2400	AHTB	RCRD;HTD	

Element History continued on next page. Also see Station Metadata link below for complete history.

* For explanation of codes and abbrevitions see Station Metadata link below.

Other Station Information can be found at:
ASOS Implementation by NWS: http://www.nws.noaa.gov/ops2/Surface/asosimplementation.htm
Station Metadata website: http://www.ncdc.noaa.gov/homr

INQUIRES/COMMENTS CALL: (828) 271-4800, option 2
Fax Number : (828) 271-4876
TDD : (828) 271-4010
Email : ncdc.info@noaa.gov

NOAA/National Climatic Data Center
Attn: User Engagement & Services Branch
151 Patton Avenue
Asheville, NC 28801-5001

Element History

NASHVILLE, TN

Element	Begin Date	End Date	Frequency	Time Of Observation	Equipment	Equipment Modifications	Equipment Exposure
SNOWWTREQ	2009-07-23	2011-04-14	DAILY	0600	SNOWX		
PRECIP	2009-07-23	2011-04-14	HOURLY	2400	AHTB	RCRD;HTD	
SNOWDPTH	2011-04-14	Present	DAILY	0600	SNOW2		
TEMP	1952-07-01	1992-05-28	DAILY	2400			
TEMP	1996-06-01	2001-09-18	DAILY	2400	HYGR		
TEMP	2004-08-18	2004-11-10	DAILY	2400	ATEMP		
PRECIP	2004-08-18	2004-11-10	DAILY	2400	TB	RCRD	