

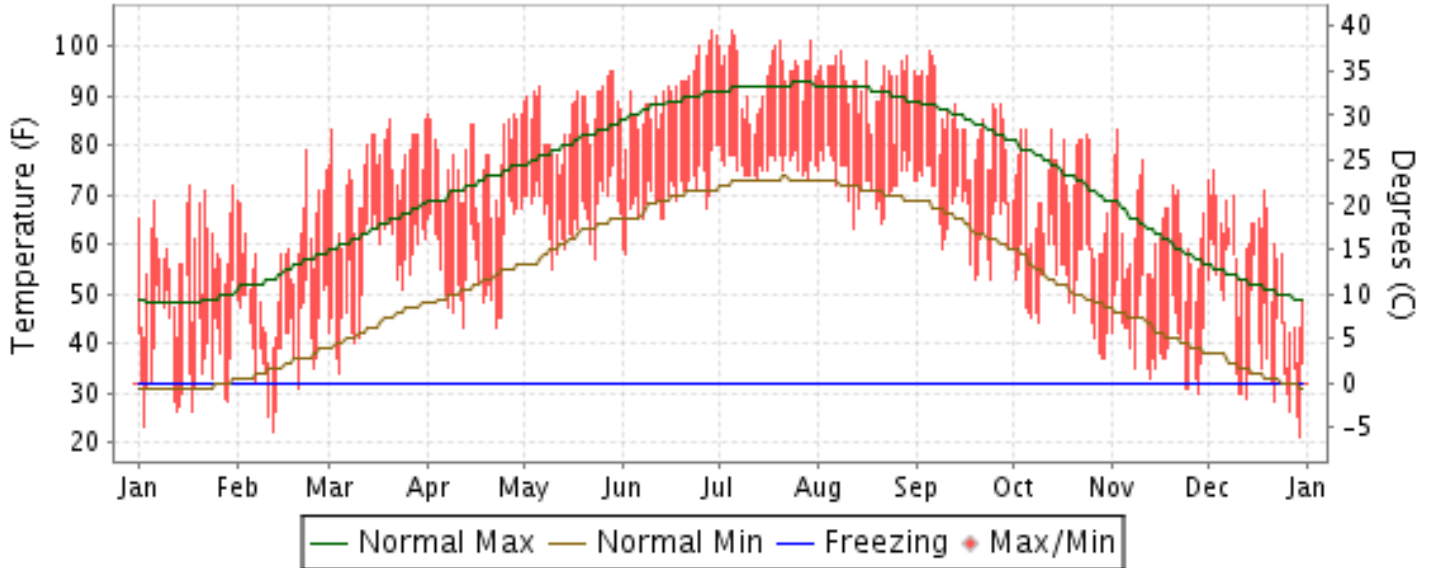


# 2012 LOCAL CLIMATOLOGICAL DATA ANNUAL SUMMARY WITH COMPARATIVE DATA

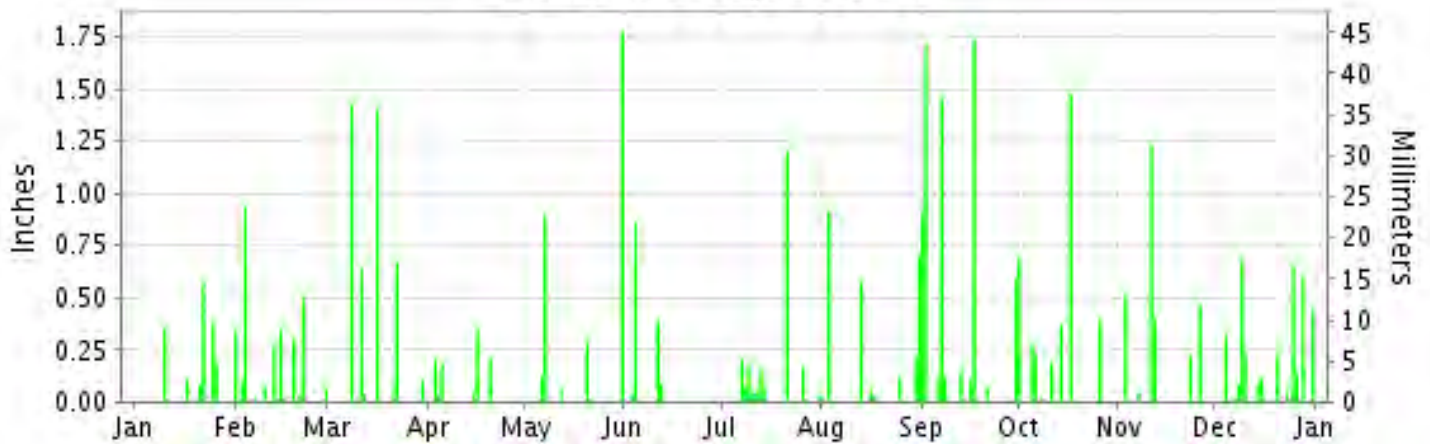
ISSN 0198-4829

## MEMPHIS, TENNESSEE (KMEM)

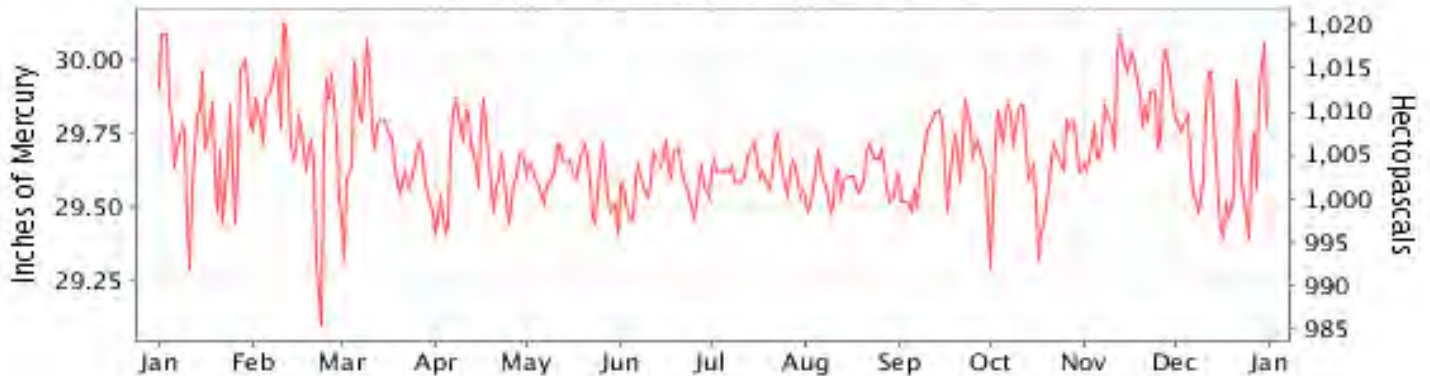
### Daily Max/Min Temperature



### Daily Precipitation



### Daily Station Pressure



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NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

NATIONAL ENVIRONMENTAL SATELLITE, DATA AND INFORMATION SERVICE

NATIONAL CLIMATIC DATA CENTER ASHEVILLE, NORTH CAROLINA

*Thomas R. Karl*  
DIRECTOR  
NATIONAL CLIMATIC DATA CENTER

# METEOROLOGICAL DATA FOR 2012

## MEMPHIS (KMEM)

LATITUDE: 35° 3'N      LONGITUDE: 89° 59'W      ELEVATION (FT): GRND: 254 BARO: 286      TIME ZONE: CENTRAL (UTC -6)      WBAN: 13893

ELEMENT		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	
TEMPERATURE °F	MEAN DAILY MAXIMUM	58.0	57.3	75.2	76.5	86.4	90.6	94.5	92.7	84.7	71.4	62.9	58.0	75.7	
	HIGHEST DAILY MAXIMUM	72	79	85	86	95	103	103	99	99	83	83	75	103	
	DATE OF OCCURRENCE	31+	23	31+	30+	29+	29	05	08	05	13+	03	03	JUL 05	
	MEAN DAILY MINIMUM	37.4	40.6	54.5	55.5	66.1	69.9	76.2	72.7	65.9	51.4	40.5	41.5	56.0	
	LOWEST DAILY MINIMUM	23	22	34	43	55	58	73	63	53	37	30	21	21	
	DATE OF OCCURRENCE	03	12	04	22+	10	02	29+	12	24+	30+	28	30	DEC 30	
	AVERAGE DRY BULB	47.7	49.0	64.9	66.0	76.3	80.3	85.4	82.7	75.3	61.4	51.7	49.8	65.9	
	MEAN WET BULB	42.0	43.4	56.7	57.6	66.1	68.4	75.1	71.1	66.4	54.2	45.1	45.5	57.6	
	MEAN DEW POINT	34.4	35.8	49.0	50.3	59.7	61.6	70.8	64.8	60.8	47.7	37.9	40.1	51.1	
	NUMBER OF DAYS WITH:														
	MAXIMUM >= 90°	0	0	0	0	13	18	24	23	7	0	0	0	0	85
	MAXIMUM <= 32°	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MINIMUM <= 32°	12	5	0	0	0	0	0	0	0	0	3	9	29		
MINIMUM <= 0°	0	0	0	0	0	0	0	0	0	0	0	0	0		
H/C	HEATING DEGREE DAYS	527	458	104	81	0	0	0	0	2	160	395	470	2197	
	COOLING DEGREE DAYS	0	1	104	117	358	463	638	556	317	55	4	4	2617	
RH	MEAN (PERCENT)	63	63	60	59	59	55	66	58	63	64	63	72	62	
	HOUR 00 LST	65	67	67	69	69	63	74	65	73	72	71	77	69	
	HOUR 06 LST	72	74	73	76	75	71	81	76	80	80	78	79	76	
	HOUR 12 LST	56	56	50	48	46	45	53	47	50	50	46	63	51	
	HOUR 18 LST	59	58	49	47	49	44	54	47	52	56	58	67	53	
W/O	NUMBER OF DAYS WITH:														
	HEAVY FOG(VISBY <= 1/4 MI)	2	1	0	0	1	0	0	0	0	0	0	0	4	
	THUNDERSTORMS	3	4	1	2	6	3	9	5	7	4	2	3	49	
PR	MEAN STATION PRESS. (IN.)	29.74	29.77	29.70	29.64	29.60	29.59	29.63	29.60	29.66	29.67	29.85	29.68	29.68	
	MEAN SEA-LEVEL PRESS. (IN.)	30.10	30.13	30.05	29.99	29.95	29.94	29.98	29.95	30.01	30.02	30.20	30.05	30.03	
WINDS	RESULTANT SPEED (MPH)	2.3	0.6	4.5	1.9	2.1	1.4	3.0	1.8	1.2	1.1	0.2	2.5	1.5	
	RES. DIR. (TENS OF DEGS.)	24	26	19	19	16	12	21	15	13	23	05	21	20	
	MEAN SPEED (MPH)	9.4	8.3	9.5	8.5	6.9	7.1	6.6	7.3	7.1	8.2	5.8	8.5	7.8	
	PREVAIL.DIR.(TENS OF DEGS.)	20	35	18	18	18	20	22	20	20	19	17	19	20	
	MAXIMUM 2-MINUTE WIND														
	SPEED (MPH)	36	32	32	32	29	37	44	38	35	33	30	37	44	
	DIR. (TENS OF DEGS.)	18	21	36	01	18	01	18	31	32	32	32	27	18	
	DATE OF OCCURRENCE	22	23	08	22	24	11	07	13	07	17	03	20	JUL 07	
	MAXIMUM 3-SECOND WIND:														
SPEED (MPH)	46	44	44	41	36	53	55	55	47	43	39	47	55		
DIR. (TENS OF DEGS.)	19	24	17	18	17	03	18	21	33	33	32	29	21		
DATE OF OCCURRENCE	22	23	21	15	02	11	07	13	07	17	03	20	AUG 13		
PRECIPITATION	WATER EQUIVALENT:														
	TOTAL (IN.)	1.73	3.03	4.35	1.04	3.17	1.38	2.26	2.64	7.01	3.66	2.90	3.73	36.90	
	GREATEST 24-HOUR (IN.)	0.58	1.02	1.44	0.40	1.78	0.90	1.21	0.92	2.24	1.48	1.63	0.92	2.24	
	DATE OF OCCURRENCE	22	03-04	08	15-16	31	03-04	21	03	01-02	17	11-12	09-10	SEP 01-02	
	NUMBER OF DAYS WITH:														
PRECIPITATION 0.01	8	14	7	6	7	4	12	8	12	8	7	17	110		
PRECIPITATION 0.10	5	7	5	4	4	2	5	5	9	7	5	9	67		
PRECIPITATION 1.00	0	0	2	0	1	0	1	0	3	1	1	0	9		
SNOWFALL	SNOW,ICE PELLETS,HAIL	T	T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9	
	TOTAL (IN.)	T	T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9	
	GREATEST 24-HOUR (IN.)	12	13+										26	DEC 26	
	DATE OF OCCURRENCE	0	0	0	0	0	0	0	0	0	0	0	1	1	
	MAXIMUM SNOW DEPTH (IN.)												26	DEC 26	
	DATE OF OCCURRENCE														
NUMBER OF DAYS WITH:															
SNOWFALL >= 1.0	0	0	0	0	0	0	0	0	0	0	0	0	0		

# NORMALS, MEANS, AND EXTREMES MEMPHIS (KMEM)

**LATITUDE:** 35° 3'N      **LONGITUDE:** 89° 59'W      **ELEVATION (FT):** GRND: 254 BARO: 286      **TIME ZONE:** CENTRAL (UTC -6)      **WBAN: 13893**

ELEMENT		POR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
TEMPERATURE °F	NORMAL DAILY MAXIMUM	30	49.8	54.7	63.9	73.0	81.2	88.9	91.6	91.3	85.1	74.4	62.6	52.1	72.4
	MEAN DAILY MAXIMUM	73	49.1	53.3	62.7	72.7	81.0	88.4	91.6	90.8	84.3	74.7	61.8	52.3	71.9
	HIGHEST DAILY MAXIMUM	71	79	81	86	94	99	104	108	107	103	95	86	81	108
	YEAR OF OCCURRENCE		2002	1962	2007	1987	1977	1954	1980	2000	1954	2007	2000	1982	JUL 1980
	MEAN OF EXTREME MAXS.	73	70.4	73.4	79.8	85.9	91.0	96.2	98.2	97.8	94.3	87.5	79.3	71.2	85.4
	NORMAL DAILY MINIMUM	30	32.6	36.3	44.1	52.9	62.2	70.3	73.8	72.7	65.2	53.8	43.7	35.1	53.6
	MEAN DAILY MINIMUM	73	31.8	34.9	43.0	52.4	61.4	69.2	73.0	71.6	64.1	52.4	42.0	34.7	52.5
	LOWEST DAILY MINIMUM	71	-4	-11	12	28	38	48	52	48	36	25	9	-13	-13
	YEAR OF OCCURRENCE		1985	1951	1943	2007	1944	1966	1947	1946	1949	1952	1950	1963	DEC 1963
	MEAN OF EXTREME MINS.	73	14.0	18.2	26.4	36.2	47.8	58.3	64.9	62.6	49.9	36.8	25.9	17.7	38.2
	NORMAL DRY BULB	30	41.2	45.5	54.0	62.9	71.7	79.6	82.7	82.0	75.2	64.1	53.2	43.6	63.0
	MEAN DRY BULB	73	40.5	44.1	52.8	62.6	71.2	78.9	82.3	81.2	74.2	63.6	51.9	43.5	62.2
	MEAN WET BULB	29	35.6	38.8	45.9	53.9	62.7	69.5	72.9	71.6	65.2	55.0	46.2	38.4	54.6
	MEAN DEW POINT	29	33.0	36.0	42.4	50.8	60.4	67.8	71.4	70.1	63.2	52.5	43.5	35.5	52.2
	NORMAL NO. DAYS WITH: MAXIMUM >= 90	30	0.0	0.0	0.0	0.2	2.1	13.9	20.9	19.2	7.7	0.3	0.0	0.0	64.3
	MAXIMUM <= 32	30	2.0	0.9	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	4.4
MINIMUM <= 32	30	14.5	9.5	3.0	0.2	0.0	0.0	0.0	0.0	0.0	0.1	3.2	12.4	42.9	
MINIMUM <= 0	30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	
H/C	NORMAL HEATING DEG. DAYS	30	738	548	358	137	19	0	0	0	11	120	368	665	2964
	NORMAL COOLING DEG. DAYS	30	1	2	17	75	226	438	549	527	316	92	13	2	2258
RH	NORMAL (PERCENT)	30	70	67	63	63	68	68	69	69	70	67	69	70	68
	HOURLY 00 LST	30	74	71	68	70	75	76	78	78	78	75	73	73	74
	HOURLY 06 LST	30	77	76	75	78	82	82	84	85	86	82	79	78	80
	HOURLY 12 LST	30	63	58	55	53	57	57	58	57	56	53	58	62	57
	HOURLY 18 LST	30	66	60	55	52	57	57	58	59	61	59	63	66	59
S	PERCENT POSSIBLE SUNSHINE	35	50	54	56	64	69	74	74	75	69	70	58	50	64
W/O	MEAN NO. DAYS WITH: HEAVY FOG(VISBY <= 1/4 MI)	49	1.6	1.2	0.6	0.2	0.3	0.3	0.3	0.3	0.6	0.7	1.1	1.3	8.5
	THUNDERSTORMS	65	2.0	2.4	4.6	6.1	7.1	7.5	8.6	6.3	3.4	2.2	2.5	1.8	54.5
CLOUDINESS	MEAN: SUNRISE-SUNSET (OKTAS)	45	5.4	5.1	5.2	4.8	4.7	4.3	4.2	3.8	3.9	3.6	4.5	5.0	4.5
	MIDNIGHT-MIDNIGHT (OKTAS)	30	4.9	4.6	4.9	4.3	4.3	3.9	3.6	3.4	3.6	3.3	4.2	4.7	4.1
	MEAN NO. DAYS WITH: CLEAR	43	7.7	7.9	7.9	8.6	8.4	9.6	10.2	11.8	12.5	14.4	10.2	8.9	118.1
	PARTLY CLOUDY	43	5.8	5.6	6.5	7.3	9.6	11.1	11.9	11.7	7.5	7.0	6.2	5.6	95.8
	CLOUDY	43	17.5	14.8	16.6	14.1	13.0	9.3	8.9	7.4	10.0	9.7	13.6	16.5	151.4
PR	MEAN STATION PRESSURE(IN)	29	29.81	29.77	29.71	29.66	29.65	29.64	29.67	29.67	29.69	29.73	29.77	29.80	29.71
	MEAN SEA-LEVEL PRES. (IN)	29	30.16	30.12	30.05	29.99	29.97	29.97	30.00	30.00	30.02	30.08	30.12	30.15	30.05
WINDS	MEAN SPEED (MPH)	29	8.9	9.3	9.6	9.3	8.3	7.4	6.9	6.7	7.2	7.3	8.1	8.7	8.1
	PREVAIL.DIR.(TENS OF DEGS)	38	20	20	19	20	19	20	22	22	04	20	19	19	20
	MAXIMUM 2-MINUTE: SPEED (MPH)	13	41	48	43	41	41	45	48	45	36	36	35	38	48
	DIR. (TENS OF DEGS)		27	30	02	29	29	20	31	07	14	32	30	19	30
	YEAR OF OCCURRENCE		2008	2008	2004	2005	2008	2011	2003	2003	2005	2003	2005	2008	FEB 2008
	MAXIMUM 3-SECOND SPEED (MPH)	13	59	55	56	64	54	72	61	59	47	48	51	48	72
	DIR. (TENS OF DEGS)		29	30	27	29	30	20	30	30	33	22	29	19	20
	YEAR OF OCCURRENCE		2008	2008	2010	2011	2008	2011	2003	2002	2012	2010	2002	2008	JUN 2011
PRECIPITATION	NORMAL (IN)	30	3.98	4.39	5.16	5.50	5.25	3.63	4.59	2.88	3.09	3.98	5.49	5.74	53.68
	MAXIMUM MONTHLY (IN)	62	12.21	10.51	12.08	17.13	11.58	10.17	9.96	9.65	12.34	10.56	11.60	13.81	17.13
	YEAR OF OCCURRENCE		1951	1989	1975	1991	1953	1996	1998	1978	2002	2009	2001	1982	APR 1991
	MINIMUM MONTHLY (IN)	62	0.57	1.12	1.50	1.04	0.83	0.04	0.43	0.43	0.14	T	0.75	1.05	0.04
	YEAR OF OCCURRENCE		1986	1980	1966	2012	1977	1953	1954	1953	2010	1963	1965	1955	JUN 1953
	MAXIMUM IN 24 HOURS (IN)	62	3.89	4.24	5.95	4.98	4.94	4.76	4.71	4.04	7.11	5.36	7.30	5.42	7.30
	YEAR OF OCCURRENCE		1974	1989	1975	2011	1958	1980	1980	1978	2002	2002	2001	1978	NOV 2001
	NORMAL NO. DAYS WITH: PRECIPITATION >= 0.01	30	9.5	9.2	10.5	9.6	10.3	9.0	8.8	6.8	7.3	7.5	9.5	9.7	107.7
	PRECIPITATION >= 1.00	30	1.0	1.3	1.6	2.0	1.7	1.2	1.6	0.9	1.0	1.3	1.8	2.0	17.4
SNOWFALL	NORMAL (IN)	30	1.9	1.3	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	3.8
	MAXIMUM MONTHLY (IN)	55	12.4	8.3	17.3	T	T	T	T	0.0	0.0	T	1.5	14.3	17.3
	YEAR OF OCCURRENCE		1985	1985	1968	2011	2010	1995				1993	1976	1963	MAR 1968
	MAXIMUM IN 24 HOURS (IN)	55	8.1	5.8	16.1	T	T	T	0.0	0.0	0.0	T	1.2	14.3	16.1
	YEAR OF OCCURRENCE		1985	1960	1968	2011	2010	1995				1993	1976	1963	MAR 1968
	MAXIMUM SNOW DEPTH (IN)	57	12	6	12	0	0	0	0	0	0	0	1	13	13
	YEAR OF OCCURRENCE		1948	1985	1968								1991	1963	DEC 1963
NORMAL NO. DAYS WITH: SNOWFALL >= 1.0	30	0.6	0.4	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	

**PRECIPITATION (inches) 2012 MEMPHIS (KMEM)**

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1983	2.32	2.61	3.66	8.84	9.58	3.50	3.83	0.61	1.52	2.94	9.56	8.68	57.65
1984	1.88	4.37	6.07	5.24	9.06	1.12	4.59	5.00	1.96	7.75	5.85	4.35	57.24
1985	3.78	4.10	4.96	6.51	2.23	4.55	3.50	3.50	4.03	3.36	3.87	3.27	47.66
1986	0.57	2.50	1.90	3.72	4.63	3.80	1.21	2.74	1.21	3.75	8.67	3.92	38.62
1987	1.76	5.81	3.38	3.78	2.96	3.66	2.06	4.12	2.01	1.96	10.45	11.39	53.34
1988	4.25	3.49	4.20	2.85	2.38	2.15	5.21	0.85	4.73	3.62	10.52	5.99	50.24
1989	7.91	10.51	5.50	2.13	2.36	7.20	7.55	1.43	6.08	2.37	3.65	2.20	58.89
1990	3.97	8.99	5.65	6.93	4.55	2.68	2.21	1.18	5.21	4.37	3.44	10.61	59.79
1991	2.90	6.46	3.68	17.13	5.10	1.42	1.92	2.06	1.47	4.39	5.54	7.04	59.11
1992	1.78	2.18	7.07	1.39	3.68	7.50	5.38	2.44	3.62	4.01	4.82	3.28	47.15
1993	3.59	2.46	3.14	6.20	4.56	4.20	0.86	3.69	3.73	1.91	4.07	5.59	44.00
1994	5.53	4.67	6.65	4.04	3.00	5.03	4.03	2.00	1.44	2.72	4.34	6.04	49.49
1995	7.07	2.12	3.35	4.38	5.90	6.66	8.42	3.63	0.39	1.57	7.62	5.79	56.90
1996	5.53	2.77	5.31	3.37	6.28	10.17	9.89	2.07	5.99	7.12	11.51	6.18	76.19
1997	4.37	7.63	11.28	8.91	8.00	6.75	4.35	4.01	6.31	4.06	1.69	4.52	71.88
1998	6.73	5.55	5.14	8.24	1.71	1.09	9.96	2.54	1.70	2.34	2.56	4.25	51.81
1999	6.15	2.10	6.59	8.92	4.79	2.42	3.63	1.18	1.11	1.53	2.37	4.73	45.52
2000	1.37	5.37	4.42	4.41	4.02	3.79	2.23	0.77	1.08	0.45	6.89	2.47	37.27
2001	3.32	6.89	3.54	3.94	6.35	2.12	5.53	2.25	3.35	6.93	11.60	10.19	66.01
2002	4.03	1.68	11.83	2.36	5.33	2.22	8.45	5.26	12.34	8.28	3.40	9.66	74.84
2003	0.87	8.23	2.95	3.52	11.40	4.82	3.29	2.22	3.54	3.01	5.05	3.08	51.98
2004	3.14	4.44	3.88	6.77	6.04	3.22	3.10	2.97	0.25	6.16	9.38	4.36	53.71
2005	4.98	3.19	3.52	5.30	1.10	1.40	8.21	5.68	1.60	0.79	2.33	1.91	40.01
2006	7.17	3.77	3.79	3.72	3.83	1.73	1.20	2.99	2.87	1.95	3.08	6.10	42.20
2007	4.73	2.17	2.82	2.61	1.30	0.72	4.05	2.81	1.39	3.96	3.52	4.73	34.81
2008	4.68	2.51	10.00	8.66	7.61	2.97	2.49	7.45	2.49	4.34	2.36	8.65	64.21
2009	3.07	3.26	6.12	3.63	7.73	2.13	8.46	1.21	8.59	10.56	1.37	5.13	61.26
2010	3.93	3.87	3.62	7.02	9.26	0.31	6.30	2.32	0.14	2.04	6.57	2.52	47.90
2011	1.49	3.36	4.95	11.76	7.12	3.55	2.95	3.08	2.56	1.28	7.71	8.55	58.36
2012	1.73	3.03	4.35	1.04	3.17	1.38	2.26	2.64	7.01	3.66	2.90	3.73	36.90
POR= 73 YRS	4.38	4.46	5.31	5.49	4.96	3.63	4.02	3.33	3.25	3.18	4.86	5.32	52.19

WBAN : 13893

**AVERAGE TEMPERATURE (°F) 2012 MEMPHIS (KMEM)**

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1983	40.4	45.3	51.9	56.8	68.2	77.2	83.6	84.9	75.2	66.2	53.1	34.7	61.5
1984	35.9	47.6	51.1	61.0	69.5	80.9	80.9	79.8	71.9	68.4	50.9	53.8	62.6
1985	32.4	40.6	57.7	65.0	71.8	78.9	82.2	80.2	73.6	67.2	57.6	36.9	62.0
1986	41.9	48.0	55.2	64.4	72.5	81.0	86.5	79.2	79.1	64.2	51.1	42.6	63.8
1987	39.6	47.1	54.7	62.2	76.5	80.0	82.5	83.6	75.3	59.2	54.4	46.7	63.5
1988	36.8	42.2	52.3	62.8	71.8	80.3	81.6	83.7	76.3	59.1	54.6	44.9	62.2
1989	47.3	40.0	53.8	62.6	69.5	77.6	80.7	81.2	72.4	64.2	54.2	33.6	61.4
1990	48.5	52.0	55.3	61.4	68.3	80.7	82.5	82.0	77.9	61.3	57.1	45.8	64.4
1991	41.2	48.0	55.4	65.0	74.6	80.3	83.3	80.9	75.3	65.5	49.2	46.8	63.8
1992	42.2	49.9	53.7	63.0	70.4	76.9	82.5	76.8	73.2	63.8	50.7	43.8	62.2
1993	42.7	42.6	51.1	59.3	69.9	79.2	86.4	83.6	73.5	62.2	50.2	44.8	62.1
1994	37.8	46.3	54.2	67.0	69.4	82.3	81.1	79.4	72.5	63.6	56.6	46.7	63.1
1995	42.2	44.2	56.2	62.9	71.1	77.0	81.1	84.5	73.0	65.2	48.3	43.2	62.4
1996	39.2	45.0	48.0	59.7	74.2	78.4	80.5	79.6	72.3	63.1	49.1	46.8	61.3
1997	39.7	47.6	56.7	57.9	67.9	75.7	82.5	79.3	74.7	62.6	48.5	42.3	61.3
1998	45.8	48.5	51.9	61.4	75.3	83.2	84.1	81.8	80.5	66.6	55.9	45.1	65.0
1999	46.0	51.4	50.9	67.0	71.2	79.7	83.7	82.7	75.2	64.3	57.0	45.8	64.6
2000	42.8	50.2	56.4	60.6	73.9	78.6	83.4	86.3	76.7	68.1	50.2	32.7	63.3
2001	38.0	47.7	49.3	67.7	72.1	77.7	83.2	81.8	73.6	61.7	57.3	48.2	63.2
2002	45.7	43.5	50.6	66.2	69.1	80.1	82.7	82.0	77.7	63.0	49.0	44.2	62.8
2003	37.7	42.0	54.3	64.2	71.7	75.1	81.1	81.4	72.2	64.2	55.5	43.9	61.9
2004	41.9	43.1	57.3	61.9	74.1	78.6	80.3	77.9	76.4	68.7	57.1	44.2	63.5
2005	46.5	49.6	53.5	63.6	71.7	81.7	82.5	84.8	78.9	64.4	55.7	42.0	64.6
2006	49.7	42.2	55.2	68.2	72.3	79.8	84.1	84.9	73.1	62.5	52.1	47.5	64.3
2007	42.7	42.6	62.5	60.3	74.7	82.2	82.1	88.5	79.0	68.6	54.5	47.8	65.5
2008	40.3	46.6	54.1	61.2	70.8	80.4	83.4	80.4	74.9	63.5	50.3	43.6	62.5
2009	39.6	48.0	55.1	62.0	71.7	81.3	79.3	79.9	75.7	60.8	55.1	40.9	62.5
2010	37.2	37.5	52.7	66.0	74.2	84.6	84.9	86.6	79.2	66.1	53.9	40.3	63.6
2011	38.9	47.2	54.3	65.8	70.3	83.7	86.1	84.0	73.3	62.7	55.9	46.5	64.1
2012	47.7	49.0	64.9	66.0	76.3	80.3	85.4	82.7	75.3	61.4	51.7	49.8	65.9
POR= 73 YRS	40.5	44.1	52.8	62.6	71.2	78.9	82.3	81.2	74.2	63.6	51.9	43.5	62.2

**HEATING DEGREE DAYS (base 65°F) 2012 MEMPHIS (KMEM)**

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1983-84	0	0	27	73	368	935	894	499	426	162	24	0	3408
1984-85	0	0	37	48	423	367	1004	683	254	100	6	0	2922
1985-86	0	0	17	54	257	864	708	475	307	102	8	0	2792
1986-87	0	0	0	102	413	687	782	492	322	154	0	0	2952
1987-88	0	0	0	186	324	559	867	657	393	108	0	0	3094
1988-89	0	0	1	202	314	619	544	694	369	174	41	0	2958
1989-90	0	0	24	102	337	966	503	363	321	181	38	0	2835
1990-91	0	0	11	182	249	593	728	471	329	57	7	0	2627
1991-92	0	0	23	90	481	556	699	433	347	144	30	0	2803
1992-93	0	0	15	87	428	650	685	617	433	200	15	2	3132
1993-94	0	0	14	164	447	618	839	524	337	78	38	0	3059
1994-95	0	0	16	117	261	559	703	574	292	123	32	0	2677
1995-96	0	0	18	79	495	666	792	577	525	190	9	0	3351
1996-97	0	0	12	115	475	561	776	479	267	214	36	0	2935
1997-98	0	0	0	181	490	696	587	457	439	133	4	0	2987
1998-99	0	0	0	58	275	622	586	381	432	68	0	0	2422
1999-00	0	0	6	112	241	591	679	430	269	150	0	0	2478
2000-01	0	0	11	81	455	996	829	479	479	72	5	0	3407
2001-02	0	0	20	150	235	513	601	598	444	94	41	0	2696
2002-03	0	0	0	125	480	639	839	639	326	97	0	0	3145
2003-04	0	0	16	87	304	645	712	627	264	139	24	0	2818
2004-05	0	0	0	43	240	639	573	425	357	94	32	0	2403
2005-06	0	0	1	137	304	708	467	629	330	54	21	0	2651
2006-07	0	0	8	162	387	539	683	615	172	198	2	0	2766
2007-08	0	0	0	84	318	525	764	536	348	163	20	0	2758
2008-09	0	0	0	125	438	657	783	475	325	155	8	0	2966
2009-10	0	0	1	149	291	739	856	764	379	52	14	0	3245
2010-11	0	0	0	61	329	756	803	497	353	81	64	0	2944
2011-12	0	0	0	144	291	566	527	458	104	81	0	0	2171
2012-	0	0	2	160	395	470							

WBAN : 13893

**COOLING DEGREE DAYS (base 65°F) 2012 MEMPHIS (KMEM)**

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1983	0	0	7	32	131	373	584	622	338	116	17	0	2220
1984	0	1	4	51	169	482	502	462	249	162	5	23	2110
1985	0	6	30	107	224	425	540	478	285	129	42	0	2266
1986	0	3	12	91	247	487	673	448	427	81	4	0	2473
1987	0	0	9	78	366	458	549	584	315	12	13	0	2384
1988	0	0	7	52	221	469	518	586	347	24	8	0	2232
1989	0	2	27	109	186	386	496	510	254	84	20	0	2074
1990	0	7	27	83	146	477	550	534	404	71	18	2	2319
1991	0	0	34	62	309	464	576	500	339	113	13	0	2410
1992	0	0	5	92	204	363	551	375	268	55	4	0	1917
1993	0	0	8	38	173	436	669	584	275	84	13	0	2280
1994	0	7	8	145	179	525	502	451	247	80	15	0	2159
1995	4	0	26	66	229	365	507	612	264	91	2	1	2167
1996	0	6	5	40	302	408	486	458	237	62	4	3	2011
1997	1	1	14	7	132	327	550	446	297	114	0	0	1889
1998	0	0	39	33	330	550	598	528	471	114	9	13	2685
1999	5	6	0	136	199	447	587	555	319	99	10	1	2364
2000	0	7	12	24	284	416	579	667	371	184	18	0	2562
2001	0	2	0	159	232	387	569	526	285	56	8	2	2226
2002	11	0	4	136	175	460	555	531	385	71	6	0	2334
2003	0	0	1	79	216	309	507	517	235	68	28	0	1960
2004	3	0	34	51	311	417	484	405	347	164	9	3	2228
2005	6	0	10	58	247	508	549	619	427	126	31	0	2581
2006	0	0	34	156	253	453	599	621	259	87	6	0	2468
2007	0	0	96	62	310	524	533	733	429	202	11	0	2900
2008	4	10	17	57	209	469	578	485	302	87	3	0	2221
2009	0	2	21	75	221	496	450	471	328	21	3	0	2088
2010	0	0	3	92	306	596	623	677	432	105	3	0	2837
2011	0	3	28	111	234	568	661	597	258	80	24	0	2564
2012	0	1	104	117	358	463	638	556	317	55	4	4	2617

## SNOWFALL (inches) 2012 MEMPHIS (KMEM)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1983-84	0.0	0.0	0.0	0.0	0.0	0.8	2.0	T	0.5	0.0	0.0	0.0	3.3
1984-85	0.0	0.0	0.0	0.0	0.0	T	12.4	8.3	0.0	0.0	0.0	0.0	20.7
1985-86	0.0	0.0	0.0	0.0	0.0	T	T	2.0	0.0	0.0	0.0	0.0	2.0
1986-87	0.0	0.0	0.0	0.0	0.0		T	T	0.4	0.0	0.0	0.0	
1987-88	0.0	0.0	0.0	0.0	0.0	T	8.2	3.0	T	0.0	0.0	0.0	11.2
1988-89	0.0	0.0	0.0	0.0	0.0	T	T	0.3	T	0.0	T	0.0	0.3
1989-90	0.0	0.0	0.0	T	T	0.4	0.0	0.0	0.0	T	0.0	0.0	0.4
1990-91	0.0	0.0	0.0	0.0	0.0	0.4	T	T	1.0	0.0	0.0	0.0	1.4
1991-92	0.0	0.0	0.0	0.0	0.6	0.0	T	0.0	T	0.0	0.0	0.0	0.6
1992-93	0.0	0.0	0.0	0.0	T	T	T	T	T	T	T	0.0	T
1993-94	0.0	0.0	0.0	T	0.0	0.0	0.7	2.4	T	0.0	0.0	0.0	3.1
1994-95	0.0	0.0	0.0	0.0	0.0	0.0	0.5	2.5	0.7	0.0	T	T	3.7
1995-96	0.0	0.0	0.0	0.0	T	T	0.4	0.2	T	0.0	0.0	0.0	0.6
1996-97	0.0	0.0	0.0	0.0	0.0	T	3.8	0.7	0.0	0.0	T	0.0	4.5
1997-98	0.0	0.0	0.0	0.0	0.0	T	3.0	0.0	T	0.0	0.0	0.0	3.0
1998-99	0.0	0.0	0.0	0.0	0.0	0.8	T	T	T	0.0			
1999-00													
2000-01													
2001-02													
2002-03													
2003-04													
2004-05													
2005-06													
2006-07						T	T	2.2	T	T	0.0	0.0	
2007-08	0.0	0.0	0.0	0.0	T	0.0	T	T	5.4	T	T	0.0	5.4
2008-09	0.0	0.0	0.0	0.0	0.0	0.0	0.8	3.0	0.3	0.0	0.0	0.0	4.1
2009-10	0.0	0.0	0.0	0.0	0.0	T	1.4	5.4	T	0.0	T	0.0	6.8
2010-11	0.0	0.0	0.0	0.0	T	0.3	6.1	3.3	0.0	T	0.0	0.0	9.7
2011-12	0.0	0.0	0.0	0.0	0.1	1.3	T	T	0.0	0.0	0.0	0.0	1.4
2012-	0.0	0.0	0.0	0.0	0.0	0.9							
POR= 72 YRS	0.0	0.0	0.0	T	0.1	0.4	2.0	1.2	0.6	T	T	T	4.3

WBAN : 13893

### REFERENCE NOTES :

<p>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).</p> <p>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).</p> <p>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. 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 CLEAR INDICATES 0 - 2 OKTAS, PARTLY CLOUDY INDICATES 3 - 6 OKTAS, AND CLOUDY INDICATES 7 OR 8 OKTAS.</p> <p>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</p>	<p>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 EIGHTHS(OKTAS) FOR REPORTING THE AMOUNT OF SKY COVER. STATION HISTORY STOPPED WITH THE 2009 ANNUAL. IF YOU NEED STATION HISTORY INFORMATION GO TO "Historical Observing Metadata Repository", URL IS: <a href="http://www.ncdc.noaa.gov/homr/">http://www.ncdc.noaa.gov/homr/</a> SNOWFALL STOPPED MONTH &amp; YEAR INDICATED ABOVE. NO FURTHER YEARS INCLUDED UNLESS RESTARTED.</p> <p><b>NOTE:</b> The "Period of Record:(POR)" for all "averages" is based on "Summary of the Day First Order Station" and "Cooperative Summary of the Day" archives.</p> <p>The 2012 Annual Publications were reproduced on 6/05/13 to correct two problems that occurred when the Publications were first produced on 02/28/13.</p> <ol style="list-style-type: none"> <li>1) A small number of stations did not correctly show number of days with thunderstorms and heavy fog.</li> <li>2) Climate Normals in the Annual Publications were based on a first edition of the 1981-2010 Normals release. With the release of Service Pack 1 (SP1) new normals for 83 stations are available and now included. Additional information on SP1 is available at: <a href="http://www1.ncdc.noaa.gov/pub/data/normals/1981-2010/status.txt">http://www1.ncdc.noaa.gov/pub/data/normals/1981-2010/status.txt</a>.</li> </ol>
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# 2012 MEMPHIS TENNESSEE (KMEM)

Topography varies from the level alluvial area in east-central Arkansas to the slightly rolling area in northwestern Mississippi and southwestern Tennessee.

Agricultural interests are varied, with major crops being cotton, corn, hay, soybeans, peaches, apples, and a considerable number of vegetables. The climate is quite favorable for dairy interests, and for the raising of cattle and hogs.

The growing season is about 230 days in length. The average date for the last occurrence of temperatures as low as 32 degrees is late March. The average date of the first temperature of 32 degrees or below is early November.

Precipitation of nearly 50 inches per year is fairly well distributed. Crops and pastures receive, on the average, an adequate supply of moisture during the growing season, with lesser amounts during the fall harvesting period.

Sunshine averages slightly over 70 percent of the possible amount during the growing season. Relative humidity averages about 70 percent for the year.

Memphis, although not in the normal paths of storms coming from the Gulf or from western Canada, is affected by both, and thereby has comparatively frequent changes in weather. Extremely high or low temperatures, however, are relatively rare.

# Station History

MEMPHIS, TN

NAME	Begin Date	End Date	Latitude	Longitude	Elevation Feet	Relocation	Platform
MEMPHIS INTERNATIONAL AP	1969-10-01	1973-04-01	35° 3'	-89° 58'	258		COOP, WXSVC
MEMPHIS INTL AP	1931-01-01	1931-10-24	35° 3'	-89° 58'			AIRWAYS
MEMPHIS INTERNATIONAL AP	1973-04-01	1981-12-31	35° 3'	-90° 00'	258	.3 MI NW	COOP, WXSVC
MEMPHIS INTERNATIONAL AP	1981-12-31	1985-10-01	35° 3'	-90° 00'	258		COOP
MEMPHIS INTERNATIONAL AP	1987-10-01	1999-04-30	35° 3'	-90° 00'	265		COOP
MEMPHIS INTERNATIONAL AP	1999-04-30	2001-10-02	35° 3'	-89° 59'	265		AIRWAYS, ASOS, COOP
MEMPHIS MUNICIPAL AP	1948-09-01	1969-01-01	35° 3'	-89° 58'	258		AIRWAYS, COOP
MEMPHIS INTERNATIONAL AP	2001-10-02	2005-11-15	35° 3'	-89° 59'	254		AIRWAYS, ASOS, COOP
MEMPHIS INTERNATIONAL AP	2011-06-16	Present	35° 3'	-89° 59'	254		AIRSAMPLE, ASOS, COOP
MEMPHIS INTERNATIONAL AP	2005-11-15	2006-11-16	35° 3'	-89° 59'	254		ASOS, COOP
MEMPHIS INTERNATIONAL AP	1985-10-01	1987-10-01	35° 3'	-90° 00'	258	.3 MI E	COOP
MEMPHIS MUNICIPAL AP	1931-10-24	1948-09-01	35° 3'	-89° 58'			AIRWAYS
MEMPHIS MUNICIPAL AP	1969-01-01	1969-10-01	35° 3'	-89° 58'	258		COOP, WXSVC
MEMPHIS INTERNATIONAL AP	2006-11-16	2011-06-16	35° 3'	-89° 59'	254		AIRSAMPLE, ASOS, COOP

# Element History

Element	Begin Date	End Date	Frequency	Time Of Observation	Equipment *	Equipment * Modifications	Equipment Exposure
PRECIP	1970-10-01	1985-10-01	HOURLY	2400			
PRECIP	1987-10-01	1995-07-01	HOURLY	2400			
PRECIP	1999-04-30	2005-11-15	HOURLY	2400	TB	RCRD	
PRECIP	2011-06-16	Present	HOURLY	2400	AWPAG	RCRD;HTD	
PRECIP	2011-06-16	Present	DAILY	2400	PCPNX		
TEMP	1995-07-01	1999-04-30	DAILY	2400	HYGR		
PRECIP	1995-07-01	1999-04-30	HOURLY	2400	UNIV	RCRD	
PRECIP	2005-11-15	2006-11-16	DAILY	2400	PCPNX		
TEMP	1930-07-01	1970-10-01	DAILY	2400			
TEMP	1987-10-01	1995-07-01	DAILY	2400	HYGR		
TEMP	2005-11-15	2006-11-16	DAILY	2400			
PRECIP	1970-10-01	1985-10-01	DAILY	2400	UNIV	RCRD	ROOF
PRECIP	1987-10-01	1995-07-01	DAILY	2400	SRG		
PRECIP	1995-07-01	1999-04-30	DAILY	2400	SRG		
PRECIP	1999-04-30	2005-11-15	DAILY	2400	TB	RCRD	
PRECIP	2005-11-15	2006-11-16	HOURLY	2400	AWPAG	RCRD;HTD	
PRECIP	2006-11-16	2011-06-16	HOURLY	2400	AWPAG	RCRD;HTD	
PRECIP	1985-10-01	1987-10-01	HOURLY	2400			
PRECIP	1930-07-01	1970-10-01	DAILY	2400	UNIV	RCRD	ROOF
TEMP	1970-10-01	1985-10-01	DAILY	2400			
TEMP	1985-10-01	1987-10-01	DAILY	2400	MXMN		
PRECIP	1985-10-01	1987-10-01	DAILY	2400	SRG		
TEMP	1999-04-30	2005-11-15	DAILY	2400	HYGR		
TEMP	2006-11-16	2011-06-16	DAILY	2400	HYGR		
PRECIP	2006-11-16	2011-06-16	DAILY	2400	PCPNX		
TEMP	2011-06-16	Present	DAILY	2400	ATEMP		

\* For explanation of codes and abbreviations 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>

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151 Patton Avenue

Asheville, NC 28801-5001

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