

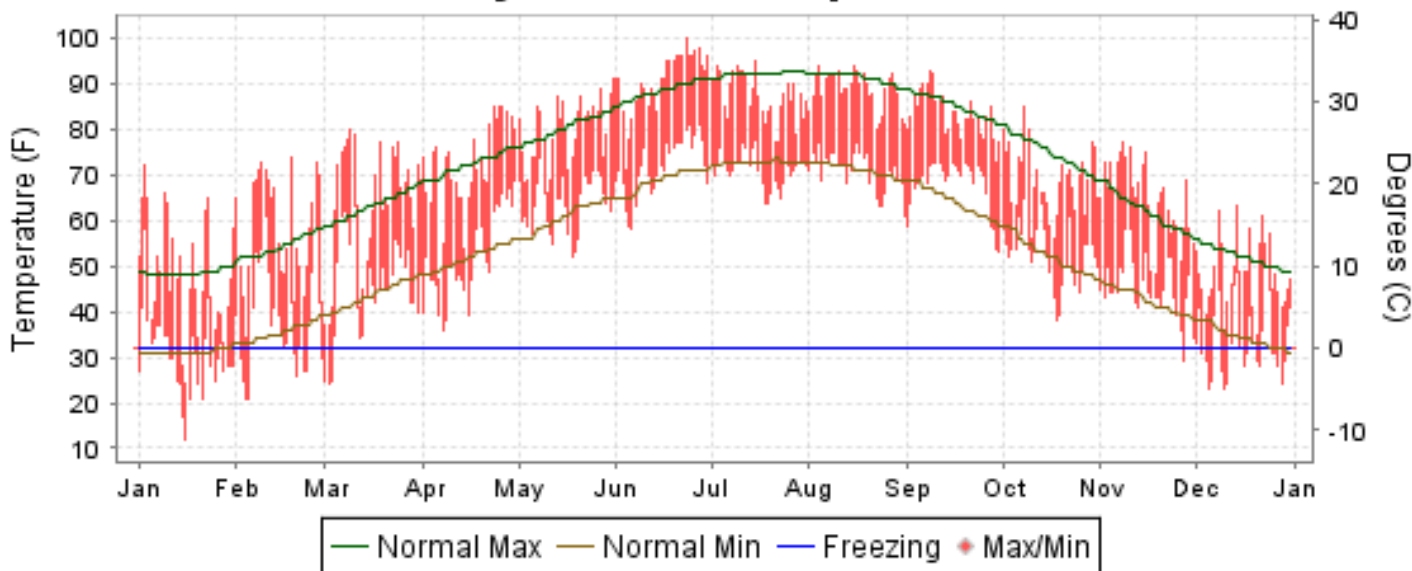


2009 LOCAL CLIMATOLOGICAL DATA ANNUAL SUMMARY WITH COMPARATIVE DATA

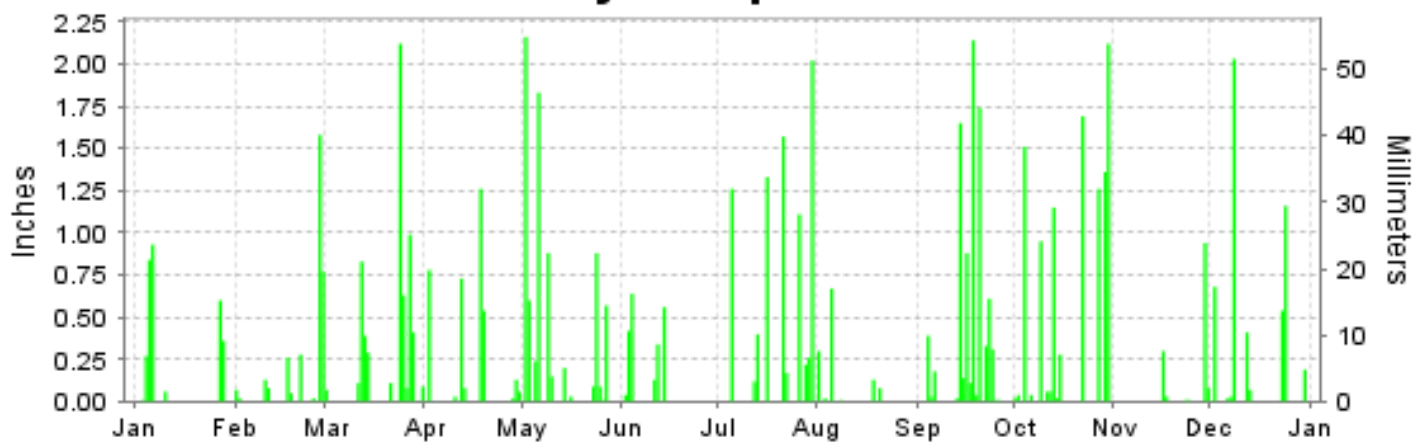
ISSN 0198-4829

MEMPHIS, TENNESSEE (KMEM)

Daily Max/Min Temperature



Daily Precipitation



Daily Station Pressure



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NATIONAL
OCEANIC AND
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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 2009

MEMPHIS (KMEM)

LATITUDE: 35° 3' N LONGITUDE: -89° 59' W ELEVATION (FT): GRND: 305 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	48.5	57.9	64.2	72.0	79.7	90.6	87.4	88.7	83.4	69.0	65.1	48.3	71.2	
	HIGHEST DAILY MAXIMUM	72	74	80	85	91	100	95	94	93	85	77	63	100	
	DATE OF OCCURRENCE	03	18	09	26+	31	23	15	15+	08	08	08	14	JUN 23	
	MEAN DAILY MINIMUM	30.6	38.0	46.0	52.0	63.6	71.9	71.2	71.1	68.0	52.5	45.1	33.5	53.6	
	LOWEST DAILY MINIMUM	12	21	24	36	52	58	64	61	53	38	29	23	12	
	DATE OF OCCURRENCE	16	05+	02	07	18	06	19+	31	30	18	27	10+	JAN 16	
	AVERAGE DRY BULB	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	
	MEAN WET BULB	35.1	42.0	48.5	54.3	64.6	72.3	71.4	71.5	69.1	55.4	49.1	36.8	55.8	
	MEAN DEW POINT	27.3	33.3	41.7	47.0	59.9	67.4	67.3	67.3	65.7	51.0	43.0	30.6	50.1	
	NUMBER OF DAYS WITH:														
	MAXIMUM >= 90°	0	0	0	0	1	19	13	16	4	0	0	0	0	53
	MAXIMUM <= 32°	2	0	0	0	0	0	0	0	0	0	0	0	0	2
MINIMUM <= 32°	18	11	3	0	0	0	0	0	0	0	1	17	50		
MINIMUM <= 0°	0	0	0	0	0	0	0	0	0	0	0	0	0		
H/C	HEATING DEGREE DAYS	783	475	325	155	8	0	0	0	1	149	291	739	2926	
	COOLING DEGREE DAYS	0	2	21	75	221	496	450	471	328	21	3	0	2088	
RH	MEAN (PERCENT)	64	59	64	60	70	64	68	67	74	74	67	69	67	
	HOUR 00 LST	66	62	68	66	76	72	74	74	81	78	74	71	72	
	HOUR 06 LST	73	69	74	74	82	78	82	83	86	82	79	77	78	
	HOUR 12 LST	58	50	59	51	61	54	58	55	64	65	55	60	58	
	HOUR 18 LST	60	53	55	51	61	54	61	56	67	69	61	65	59	
S	PERCENT POSSIBLE SUNSHINE														
W/O	NUMBER OF DAYS WITH:														
	HEAVY FOG(VISBY <= 1/4 MI)	2	0	2	1	0	0	0	0	1	1	0	0	7	
	THUNDERSTORMS	1	2	4	5	9	6	10	3	8	1	1	1	51	
CLOUDNESS	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.)	29.77	29.81	29.74	29.62	29.62	29.54	29.62	29.67	29.64	29.65	29.75	29.73	29.68	
	MEAN SEA-LEVEL PRESS. (IN.)	30.13	30.17	30.09	29.98	29.97	29.88	29.96	30.02	29.99	30.01	30.11	30.10	30.03	
WINDS	RESULTANT SPEED (MPH)	0.8	2.5	1.9	3.1	2.3	3.1	1.9	0.8	2.3	1.4	1.6	1.2	1.4	
	RES. DIR. (TENS OF DEGS.)	27	21	16	21	13	22	22	17	08	16	19	21	19	
	MEAN SPEED (MPH)	8.9	10.6	9.7	10.0	8.3	6.7	6.2	6.5	6.3	7.6	6.1	7.9	7.9	
	PREVAIL.DIR.(TENS OF DEGS.)	19	19	19	18	20	20	21	20	06	14	19	31	19	
	MAXIMUM 2-MINUTE WIND														
	SPEED (MPH)	28	36	33	31	32	40	29	37	31	25	21	30	40	
	DIR. (TENS OF DEGS.)	36	24	18	30	17	26	31	33	08	16	36	13	26	
	DATE OF OCCURRENCE	19	11	05	05	27	12	26	10	05	29	30	24	JUN 12	
	MAXIMUM 3-SECOND WIND:														
	SPEED (MPH)	37	51	40	40	38	53	41	47	37	38	31	39	53	
DIR. (TENS OF DEGS.)	01	23	19	27	18	26	32	32	08	15	22	15	26		
DATE OF OCCURRENCE	19	11	05	19	27	12	26	10	05	30	07	24	JUN 12		
PRECIPITATION	WATER EQUIVALENT:														
	TOTAL (IN.)	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	
	GREATEST 24-HOUR (IN.)	1.75	1.80	2.25	1.71	2.16	1.06	2.02	0.67	2.25	2.12	1.02	2.03	2.25	
	DATE OF OCCURRENCE	06-07	27-28	24-25	18-19	02	03-04	30	05	17-18	30	29-30	08	SEP 17-18	
	NUMBER OF DAYS WITH:														
	PRECIPITATION 0.01	7	10	12	9	13	6	10	6	16	14	6	9	118	
PRECIPITATION 0.10	5	5	9	5	9	5	10	3	11	8	2	6	78		
PRECIPITATION 1.00	0	1	1	1	2	0	5	0	3	6	0	2	21		
SNOWFALL	SNOW,ICE PELLETS,HAIL														
	TOTAL (IN.)	0.8	3.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T	4.1	
	GREATEST 24-HOUR (IN.)	0.8	3.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T	3.0	
	DATE OF OCCURRENCE	28	28	01									25	FEB 28	
	MAXIMUM SNOW DEPTH (IN.)	1	0	3	0	0	0	0	0	0	0	0	0	3	
	DATE OF OCCURRENCE	29		01										MAR 01	
NUMBER OF DAYS WITH:															
SNOWFALL >= 1.0	0	1	0	0	0	0	0	0	0	0	0	0	1		

NORMALS, MEANS, AND EXTREMES MEMPHIS (KMEM)

LATITUDE:
35 ° 3 'N

LONGITUDE:
-89 ° 59'W

ELEVATION (FT):
GRND: 305 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	48.6	54.4	63.3	72.4	80.4	88.5	92.1	91.2	85.3	75.1	62.1	52.2	72.1
	MEAN DAILY MAXIMUM	70	49.1	53.3	62.5	72.5	81.0	88.2	91.5	90.7	84.2	74.7	61.7	52.2	71.8
	HIGHEST DAILY MAXIMUM	68	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.	70	70.4	73.3	79.7	85.8	90.9	96.0	98.1	97.5	94.0	87.6	79.2	71.2	85.3
	NORMAL DAILY MINIMUM	30	31.3	35.5	43.7	51.9	60.8	68.8	72.9	71.2	64.3	52.5	42.6	34.5	52.5
	MEAN DAILY MINIMUM	70	31.8	34.9	42.8	52.3	61.3	69.0	72.8	71.4	64.0	52.5	42.0	34.6	52.5
	LOWEST DAILY MINIMUM	68	-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.	70	13.9	18.2	26.2	35.9	47.7	58.0	64.6	62.5	49.7	36.8	25.7	17.5	38.1
	NORMAL DRY BULB	30	39.9	44.9	53.5	62.1	70.6	78.7	82.5	81.2	74.8	63.8	52.3	43.3	62.3
	MEAN DRY BULB	70	40.5	44.1	52.6	62.4	71.1	78.7	82.2	81.1	74.1	63.6	51.8	43.4	62.1
	MEAN WET BULB	26	36.3	39.5	46.1	54.2	63.1	69.8	73.1	72.0	65.9	56.0	46.8	38.8	55.1
	MEAN DEW POINT	26	32.5	35.6	41.5	50.0	59.8	67.2	70.9	69.7	62.9	52.3	43.0	34.9	51.7
	NORMAL NO. DAYS WITH: MAXIMUM >= 90	30	0.0	0.0	0.0	0.2	2.6	14.3	22.0	19.1	8.7	0.5	0.0	0.0	67.4
	MAXIMUM <= 32	30	3.1	1.4	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	*	1.6	6.2
MINIMUM <= 32	30	16.6	11.1	3.9	0.3	0.0	0.0	0.0	0.0	0.0	0.1	3.9	12.8	48.7	
MINIMUM <= 0	30	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	
H/C	NORMAL HEATING DEG. DAYS	30	770	565	366	144	22	0	0	0	13	121	381	659	3041
	NORMAL COOLING DEG. DAYS	30	1	2	15	72	210	426	554	504	307	84	11	1	2187
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)	46	1.6	1.2	0.7	0.2	0.3	0.3	0.3	0.3	0.6	0.7	1.2	1.4	8.8
	THUNDERSTORMS	62	1.9	2.4	4.6	6.2	7.0	7.6	8.6	6.3	3.4	2.2	2.5	1.8	54.5
CLOUDNESS	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)	26	29.82	29.78	29.71	29.66	29.65	29.65	29.68	29.67	29.70	29.73	29.77	29.80	29.72
	MEAN SEA-LEVEL PRES. (IN)	26	30.17	30.12	30.06	29.99	29.98	29.97	30.00	30.01	30.03	30.08	30.12	30.16	30.06
WINDS	MEAN SPEED (MPH)	26	9.0	9.4	9.6	9.2	8.4	7.4	7.0	6.6	7.3	7.3	8.2	8.8	8.2
	PREVAIL.DIR(TENS OF DEGS)	35	21	20	19	20	21	20	22	22	04	16	19	19	22
	MAXIMUM 2-MINUTE: SPEED (MPH)	10	41	48	43	41	41	40	48	45	36	36	35	38	48
	DIR. (TENS OF DEGS)		27	30	02	29	29	26	31	07	14	32	30	19	30
	YEAR OF OCCURRENCE		2008	2008	2004	2005	2008	2009	2003	2003	2005	2003	2005	2008	FEB 2008
	MAXIMUM 3-SECOND SPEED (MPH)	10	59	55	48	49	54	53	61	59	44	46	51	48	61
	DIR. (TENS OF DEGS)		29	30	02	31	30	26	30	30	13	32	29	19	30
YEAR OF OCCURRENCE		2008	2008	2004	2005	2008	2009	2003	2002	2005	2003	2002	2008	JUL 2003	
PRECIPITATION	NORMAL (IN)	30	4.24	4.31	5.58	5.79	5.15	4.30	4.22	3.00	3.31	3.31	5.76	5.68	54.65
	MAXIMUM MONTHLY (IN)	59	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)	59	0.57	1.12	1.50	1.39	0.83	0.04	0.43	0.43	0.19	T	0.75	1.05	T
	YEAR OF OCCURRENCE		1986	1980	1966	1992	1977	1953	1954	1953	1953	1963	1965	1955	OCT 1963
	MAXIMUM IN 24 HOURS (IN)	59	3.89	4.24	5.95	4.35	4.94	4.76	4.71	4.04	7.11	5.36	7.30	5.42	7.30
	YEAR OF OCCURRENCE		1974	1989	1975	1985	1958	1980	1980	1978	2002	2002	2001	1978	NOV 2001
	NORMAL NO. DAYS WITH: PRECIPITATION >= 0.01	30	10.3	8.8	11.1	10.0	10.3	9.0	8.5	6.9	7.7	6.9	9.4	9.7	108.6
PRECIPITATION >= 1.00	30	1.1	1.2	1.8	2.0	1.6	1.4	1.4	0.8	1.0	1.0	2.0	1.9	17.2	
SNOWFALL	NORMAL (IN)	30	2.2	1.9	0.3	0.*	0.0	0.0	0.0	0.0	0.0	0.*	0.1	0.1	4.6
	MAXIMUM MONTHLY (IN)	52	12.4	8.3	17.3	T	T	T	0.0	0.0	0.0	T	1.5	14.3	17.3
	YEAR OF OCCURRENCE		1985	1985	1968	2008	2008	1995	1995	1995	1993	1976	1963	1963	MAR 1968
	MAXIMUM IN 24 HOURS (IN)	52	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	1993	1995	1995	1995	1995	1993	1976	1963	1963	MAR 1968
	MAXIMUM SNOW DEPTH (IN)	54	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	0.7	0.6	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	

PRECIPITATION (inches) 2009 MEMPHIS (KMEM)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1980	3.23	1.12	10.86	7.53	4.43	5.75	4.73	1.23	5.32	3.14	5.23	1.86	54.43
1981	1.38	3.66	4.98	3.67	7.06	2.93	1.71	4.21	0.61	5.83	2.12	1.84	40.00
1982	6.61	4.16	4.47	6.76	5.50	6.68	4.13	3.11	1.92	5.23	6.43	13.81	68.81
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
POR= 70 YRS	4.47	4.50	5.35	5.44	4.90	3.71	4.03	3.36	3.26	3.22	4.82	5.33	52.39

WBAN : 13893

AVERAGE TEMPERATURE (°F) 2009 MEMPHIS (KMEM)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1980	43.2	39.5	49.4	60.9	72.5	80.9	88.8	87.2	80.5	62.7	53.3	45.9	63.7
1981	40.9	47.3	54.3	70.2	70.0	82.5	84.6	81.8	74.0	62.5	53.8	40.9	63.6
1982	36.6	40.5	55.5	58.5	74.5	78.0	85.0	82.9	73.3	63.7	53.4	49.5	62.6
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
POR= 70 YRS	40.5	44.1	52.6	62.4	71.1	78.7	82.2	81.1	74.1	63.6	51.8	43.4	62.1

HEATING DEGREE DAYS (base 65°F) 2009 MEMPHIS (KMEM)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1980-81	0	0	5	146	362	586	739	492	342	18	23	0	2713
1981-82	0	0	9	153	331	739	873	680	324	215	2	0	3326
1982-83	0	0	20	134	352	500	759	543	406	273	25	0	3012
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-	0	0	1	149	291	739							

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COOLING DEGREE DAYS (base 65°F) 2009 MEMPHIS (KMEM)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1980	0	0	0	40	249	480	744	695	476	80	18	2	2784
1981	0	5	20	181	184	532	614	527	285	80	2	0	2430
1982	0	1	36	26	305	399	623	563	275	100	14	25	2367
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

SNOWFALL (inches) 2009 MEMPHIS (KMEM)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1980-81	0.0	0.0	0.0	0.0	T	T	T	T	0.0	0.0	0.0	0.0	T
1981-82	0.0	0.0	0.0	0.0	0.0	T	4.5	0.7	1.2	0.0	0.0	0.0	6.4
1982-83	0.0	0.0	0.0	0.0	0.0	T	7.3	T	0.2	0.0	0.0	0.0	7.5
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	T	0.4	0.0	0.0	0.0	T
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-	0.0	0.0	0.0	0.0	0.0	T							
POR= 69 YRS	0.0	0.0	0.0	T	0.1	0.4	2.0	1.1	0.6	T	T	T	4.2

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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. 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.</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 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 HISTORY GO TO "MULTI-NETWORK METADATA SYSTEM", URL IS: https://mi3.ncdc.noaa.gov/mi3qry/login.cfm</p> <p>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.</p>
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2009 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.

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