

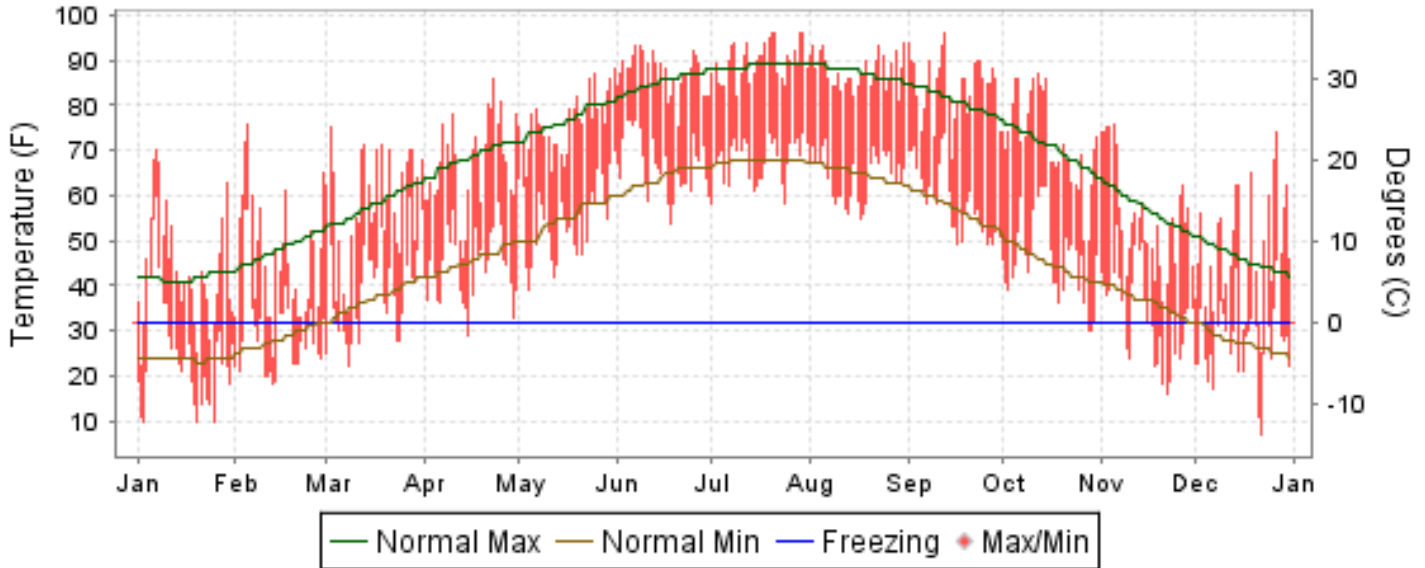


# 2008 LOCAL CLIMATOLOGICAL DATA ANNUAL SUMMARY WITH COMPARATIVE DATA

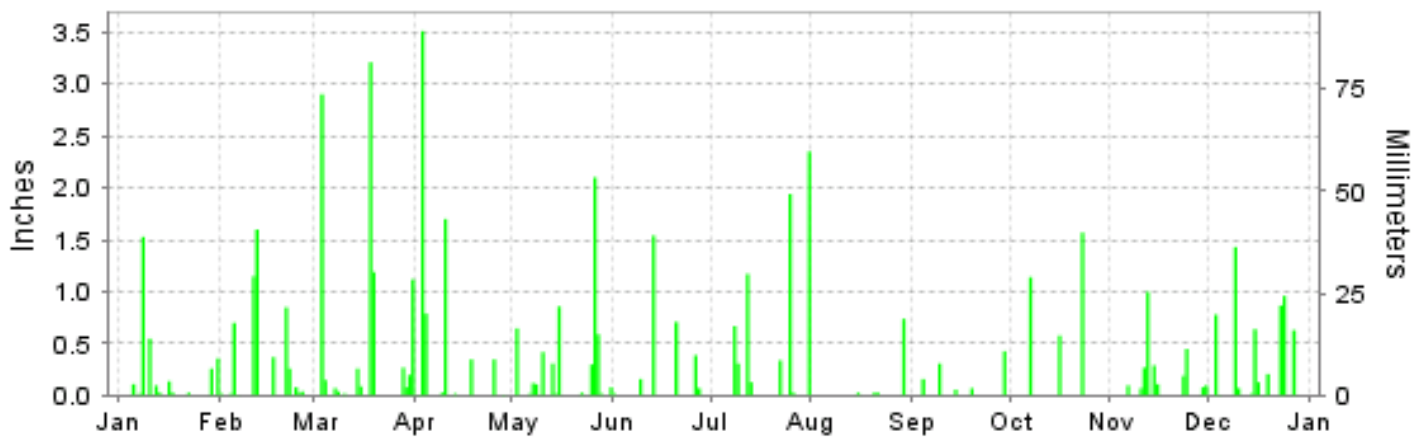
ISSN 0888-9988

## PADUCAH, KENTUCKY (KPAH)

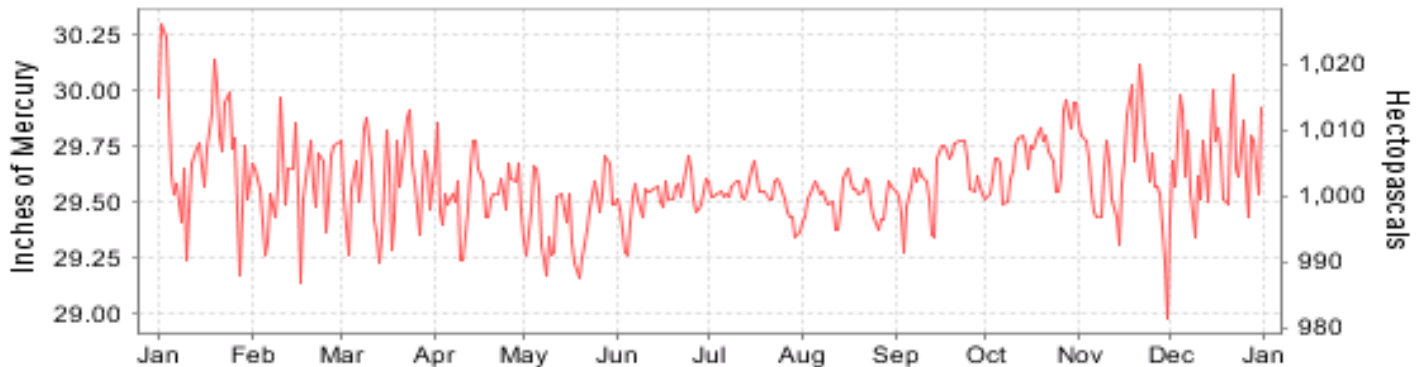
### Daily Max/Min Temperature



### Daily Precipitation



### Daily Station Pressure



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NATIONAL  
CLIMATIC DATA CENTER  
ASHEVILLE, NORTH CAROLINA

*Thomas R. Karl*  
DIRECTOR  
NATIONAL CLIMATIC DATA CENTER

# METEOROLOGICAL DATA FOR 2008

## PADUCAH (KPAH)

LATITUDE: 37 ° 3 'N      LONGITUDE: -88 ° 46'W      ELEVATION (FT): GRND: 404    BARO: 394      TIME ZONE: CENTRAL (UTC -6)      WBAN: 03816

ELEMENT		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	
TEMPERATURE °F	MEAN DAILY MAXIMUM	43.6	46.3	57.9	67.2	76.1	87.0	89.8	87.6	84.3	72.1	55.3	47.2	67.9	
	HIGHEST DAILY MAXIMUM	70	76	75	86	88	93	96	94	96	87	76	74	96	
	DATE OF OCCURRENCE	07	05	02	23	31	08+	30+	31	13	12	05	27	SEP 13	
	MEAN DAILY MINIMUM	25.0	29.3	38.5	44.4	54.5	66.9	68.0	64.4	58.9	46.0	33.9	27.4	46.4	
	LOWEST DAILY MINIMUM	10	18	22	29	39	54	58	55	49	30	16	7	7	
	DATE OF OCCURRENCE	25+	13	08	15	04	18	24+	17	28+	29+	22	22	DEC 22	
	AVERAGE DRY BULB	34.3	37.8	48.2	55.8	65.3	77.0	78.9	76.0	71.6	59.1	44.6	37.3	57.2	
	MEAN WET BULB	30.8		42.6	49.9	58.7	68.1	70.5	67.9	63.2	51.0	39.5	33.3		
	MEAN DEW POINT	23.3		35.8	43.6	53.5	63.1	66.1	63.6	57.9	43.6	32.1	26.3		
	NUMBER OF DAYS WITH:														
	MAXIMUM >= 90°	0	0	0	0	0	8	17	11	7	0	0	0	43	
MAXIMUM <= 32°	6	1	0	0	0	0	0	0	0	0	0	5	12		
MINIMUM <= 32°	25	19	10	1	0	0	0	0	0	3	13	24	95		
MINIMUM <= 0°	0	0	0	0	0	0	0	0	0	0	0	0	0		
H/C	HEATING DEGREE DAYS	940	784	516	283	66	0	0	0	6	225	604	850	4274	
	COOLING DEGREE DAYS	0	2	0	15	83	366	438	347	210	47	0	0	1508	
RH	MEAN (PERCENT)	65	70	65	65	67	64	68	69	67	61	64	66	66	
	HOUR 00 LST	69	73	68	73	78	75	81	82	81	73	74	69	75	
	HOUR 06 LST	74	77	75	78	80	79	83	85	86	79	74	73	79	
	HOUR 12 LST	59	64	59	54	55	50	52	50	47	44	49	58	53	
	HOUR 18 LST	59	65	59	55	59	52	59	58	55	52	61	64	58	
S	PERCENT POSSIBLE SUNSHINE		35		51		75			79		58			
W/O	NUMBER OF DAYS WITH:														
	HEAVY FOG(VISBY <= 1/4 MI)	2	1	1	0	1	4	4	5	2	0	3	1	24	
	THUNDERSTORMS	1	3	5	7	7	6	9	4	4	1	0	2	49	
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.)	29.74	29.58	29.59	29.55	29.44	29.52	29.54	29.51	29.60	29.71	29.64	29.70	29.59	
	MEAN SEA-LEVEL PRESS. (IN.)	30.20	30.03	30.04	30.01	29.87	29.95	29.97	29.95	30.04	30.16	30.10	30.15	30.04	
WINDS	RESULTANT SPEED (MPH)	3.0	2.2	0.4	1.4	1.4	3.1	1.2	1.4	0.9	0.3	2.0	1.6	1.2	
	RES. DIR. (TENS OF DEGS.)	24	26	31	23	23	22	23	03	03	24	26	24	25	
	MEAN SPEED (MPH)	7.2	8.2	8.9	7.2	6.4	5.9	3.8	3.7	4.7	4.8	5.7	9.2	6.3	
	PREVAIL.DIR.(TENS OF DEGS.)	19	26	17	17	18	21	23	05	01	15	22	17	21	
	MAXIMUM 2-MINUTE WIND														
	SPEED (MPH)	43	40	29	36	30	35	31	21	37	23	24	44	44	
	DIR. (TENS OF DEGS.)	27	26	23	24	29	28	28	03	22	34	36	24	24	
	DATE OF OCCURRENCE	29	05	25	25	11	13	08	25	14	26	20	27	DEC 27	
	MAXIMUM 3-SECOND WIND:														
	SPEED (MPH)	64	54	41	46	46	45	41	32	56	35	32	59	64	
DIR. (TENS OF DEGS.)	26	28	21	17	30	28	28	33	22	33	25	24	26		
DATE OF OCCURRENCE	29	05	25	10	11	13	08	05	14	26	07	27	JAN 29		
PRECIPITATION	WATER EQUIVALENT:														
	TOTAL (IN.)	3.16	5.13	9.60	6.77	5.63	2.89	6.94	0.83	1.03	3.29	2.66	5.76	53.69	
	GREATEST 24-HOUR (IN.)	1.53	2.69	4.24	4.18	2.40	1.54	2.35	0.74	0.43	1.57	1.00	1.83	4.24	
	DATE OF OCCURRENCE	08	11-12	18-19	03-04	25-26	13	31	29	29	23	12	23-24	MAR 18-19	
	NUMBER OF DAYS WITH:														
	PRECIPITATION 0.01	11	12	13	9	14	6	8	4	5	3	10	12	107	
PRECIPITATION 0.10	7	6	8	5	9	4	7	1	3	3	8	8	69		
PRECIPITATION 1.00	1	2	4	2	1	1	3	0	0	2	1	1	18		
SNOWFALL	SNOW,ICE PELLETS,HAIL														
	TOTAL (IN.)	1.7	1.6	1.9	T	0.0	0.0	0.0	0.0	0.0	0.0	T	0.8	6.0	
	GREATEST 24-HOUR (IN.)	0.7	0.5	1.3	T	0.0	0.0	0.0	0.0	0.0	0.0	T	0.8	1.3	
	DATE OF OCCURRENCE	16	11	07	10							30	15	MAR 07	
	MAXIMUM SNOW DEPTH (IN.)	0	0	1	0	0	0	0	0	0	0	0	0	1	
	DATE OF OCCURRENCE			07										MAR 07	
NUMBER OF DAYS WITH:															
SNOWFALL >= 1.0	0	0	1	0	0	0	0	0	0	0	0	0	1		

# NORMALS, MEANS, AND EXTREMES PADUCAH (KPAH)

LATITUDE:  
37 ° 3 'N

LONGITUDE:  
-88 ° 46'W

ELEVATION (FT):  
GRND: 404 BARO: 394

TIME ZONE:  
CENTRAL (UTC -6)

WBAN: 03816

	ELEMENT	POR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
TEMPERATURE °F	NORMAL DAILY MAXIMUM	30	41.9	48.0	58.1	68.4	76.9	85.2	88.6	87.4	81.2	70.8	57.2	46.3	67.5
	MEAN DAILY MAXIMUM	59	43.1	47.2	57.4	68.6	77.6	85.4	89.1	87.1	81.3	71.1	57.2	46.5	67.6
	HIGHEST DAILY MAXIMUM	25	70	77	84	90	94	103	102	105	100	92	83	74	105
	YEAR OF OCCURRENCE		2008	1996	1986	1987	1998	1988	1988	2007	1999	2007	2005	2008	AUG 2007
	MEAN OF EXTREME MAXS.	59	65.1	68.6	77.5	84.3	89.0	95.2	97.2	96.3	92.5	85.9	76.0	66.6	82.9
	NORMAL DAILY MINIMUM	30	23.9	28.2	37.1	45.6	55.0	63.8	67.7	64.9	57.1	45.2	36.5	27.5	46.0
	MEAN DAILY MINIMUM	59	25.5	28.5	36.9	46.8	56.4	64.4	68.6	65.9	58.2	46.9	37.0	29.0	47.0
	LOWEST DAILY MINIMUM	25	-15	-8	11	21	35	44	52	44	35	24	10	-10	-15
	YEAR OF OCCURRENCE		1985	1985	1996	2007	2005	1993	2004	1986	1995	1993	1986	1989	JAN 1985
	MEAN OF EXTREME MINS.	59	5.3	9.9	20.0	30.1	41.1	52.0	57.6	54.9	42.0	30.5	20.4	10.1	31.2
	NORMAL DRY BULB	30	32.9	38.1	47.6	57.0	65.9	74.5	78.2	76.2	69.1	58.0	46.8	36.9	56.8
	MEAN DRY BULB	59	34.3	37.9	47.1	57.7	67.0	75.0	78.9	76.6	69.7	59.0	47.1	37.8	57.3
	MEAN WET BULB	24	32.1	35.8	42.4	51.2	60.6	68.1	71.7	70.1	62.8	52.4	42.9	34.5	52.1
	MEAN DEW POINT	24	28.5	30.8	37.5	46.6	57.4	65.5	69.6	67.9	59.9	48.7	38.8	30.9	48.5
	NORMAL NO. DAYS WITH: MAXIMUM >= 90	30	0.0	0.0	0.0	*	1.2	9.6	17.1	12.7	4.8	*	0.0	0.0	45.4
	MAXIMUM <= 32	30	6.9	3.6	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	3.8	15.0
MINIMUM <= 32	30	23.6	17.4	10.5	2.5	0.0	0.0	0.0	0.0	0.0	2.2	9.9	19.4	85.5	
MINIMUM <= 0	30	1.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	1.6	
H/C	NORMAL HEATING DEG. DAYS	30	982	750	530	256	75	7	0	0	43	236	531	855	4265
	NORMAL COOLING DEG. DAYS	30	0	0	6	32	119	308	425	363	182	35	1	0	1471
RH	NORMAL (PERCENT)	30	75	72	67	66	72	74	75	76	74	72	72	75	73
	HOURLY 00 LST	30	79	78	73	76	84	87	88	90	88	83	78	79	82
	HOURLY 06 LST	30	82	82	79	82	87	89	91	93	92	87	83	83	86
	HOURLY 12 LST	30	67	63	57	53	57	58	59	57	54	53	60	66	59
	HOURLY 18 LST	30	72	66	58	55	61	62	64	64	65	67	68	73	65
S	PERCENT POSSIBLE SUNSHINE	18	45	48	55	61	62	66	71	70	65	64	51	44	59
W/O	MEAN NO. DAYS WITH: HEAVY FOG(VISBY <= 1/4 MI)	45	2.5	1.7	1.1	0.5	1.0	1.0	1.6	2.9	3.5	2.7	1.3	2.3	22.1
	THUNDERSTORMS	50	1.4	1.5	3.8	5.4	7.7	7.8	7.7	6.3	3.8	2.3	2.1	1.0	50.8
CLOUDNESS	MEAN: SUNRISE-SUNSET (OKTAS)	11	5.6	5.5	5.3	4.9	5.1	4.8	3.9	3.7	3.9	4.1	4.7	4.9	4.7
	MIDNIGHT-MIDNIGHT (OKTAS)	12	4.8	4.8	4.6	4.2	4.5	4.2	3.7	3.4	3.6	3.8	4.6	4.7	4.2
	MEAN NO. DAYS WITH: CLEAR	11	6.6	5.6	7.0	8.5	7.1	6.6	9.9	11.4	11.1	11.3	8.8	7.5	101.4
	PARTLY CLOUDY	11	6.3	7.5	7.7	7.8	8.5	11.9	11.2	11.1	7.6	6.9	4.3	6.4	97.2
	CLOUDY	11	18.1	15.0	16.3	13.7	15.4	11.5	9.9	8.5	11.3	12.8	16.9	17.2	166.6
PR	MEAN STATION PRESSURE(IN)	24	29.70	29.68	29.61	29.55	29.54	29.54	29.57	29.58	29.60	29.64	29.66	29.70	29.61
	MEAN SEA-LEVEL PRES. (IN)	24	30.15	30.13	30.06	29.99	29.98	29.97	30.00	30.01	30.04	30.09	30.11	30.15	30.06
WINDS	MEAN SPEED (MPH)	24	8.6	8.6	9.1	8.6	7.0	5.9	5.5	4.9	5.4	6.3	7.9	8.1	7.2
	PREVAIL.DIR(TENS OF DEGS)	26	22	22	19	22	19	22	23	22	19	19	22	20	22
	MAXIMUM 2-MINUTE: SPEED (MPH)	13	43	40	48	38	43	45	51	33	37	43	34	44	51
	DIR. (TENS OF DEGS)		27	26	24	26	28	29	34	01	22	24	26	24	34
	YEAR OF OCCURRENCE		2008	2008	2006	2004	1996	2000	2002	1997	2008	1996	1998	2008	JUL 2002
	MAXIMUM 3-SECOND SPEED (MPH)	13	64	54	61	61	58	56	70	55	56	52	48	59	70
	DIR. (TENS OF DEGS)		26	28	24	31	28	29	33	03	22	25	29	24	33
YEAR OF OCCURRENCE		2008	2008	2006	1997	2004	2000	2002	1997	2008	1996	2002	2008	JUL 2002	
PRECIPITATION	NORMAL (IN)	30	3.47	3.93	4.27	4.95	4.75	4.51	4.45	2.99	3.56	3.45	4.53	4.38	49.24
	MAXIMUM MONTHLY (IN)	25	6.43	13.33	9.60	8.45	8.78	10.98	8.04	6.07	11.65	7.37	9.56	9.99	13.33
	YEAR OF OCCURRENCE		2007	1989	2008	1984	2002	1998	1998	2005	2006	1998	1988	1984	FEB 1989
	MINIMUM MONTHLY (IN)	25	0.99	1.09	1.78	1.55	0.71	0.41	0.28	0.11	0.02	.11	0.90	1.34	0.02
	YEAR OF OCCURRENCE		1987	1996	1995	1986	1994	1988	1999	1996	2004	2005	1999	1985	SEP 2004
	MAXIMUM IN 24 HOURS (IN)	25	5.82	6.34	4.24	4.31	3.45	4.11	4.87	3.64	7.53	5.25	4.90	4.12	7.53
	YEAR OF OCCURRENCE		2000	1989	2008	1985	1997	1989	2000	2005	1985	1998	1996	2001	SEP 1985
	NORMAL NO. DAYS WITH: PRECIPITATION >= 0.01	30	9.4	8.6	11.0	11.0	10.9	9.0	8.3	7.0	7.4	7.7	9.9	10.1	110.3
PRECIPITATION >= 1.00	30	0.8	1.3	1.0	1.2	1.4	1.3	1.4	0.9	1.1	0.9	1.5	1.2	14.0	
SNOWFALL	NORMAL (IN)	30	3.9	3.3	1.2	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.1	1.5	10.2
	MAXIMUM MONTHLY (IN)	25	16.8	15.3	7.4	T	T	T	T	T	0.0	T	2.2	0.4	14.2
	YEAR OF OCCURRENCE		1985	1993	1994	2008	2006	1993	1992		2001	1993	1997	2004	JAN 1985
	MAXIMUM IN 24 HOURS (IN)	25	7.4	7.9	7.3	T	T	T	T	0.0	T	2.1	0.4	14.0	14.0
	YEAR OF OCCURRENCE		1994	1993	1994	1993	2006	1993	1992	1984	2001	1993	1997	2004	DEC 2004
	MAXIMUM SNOW DEPTH (IN)	50	20	8	8	3	0	0	0	0	0	2	1	13	20
	YEAR OF OCCURRENCE		1978	1979	1967	1971						1993	1969	2004	JAN 1978
NORMAL NO. DAYS WITH: SNOWFALL >= 1.0	30	1.4	1.2	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	3.6	

**PRECIPITATION (inches) 2008 PADUCAH (KPAH)**

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1984	1.21	4.74	5.83	8.45	6.50	1.58	5.44	3.96	6.80	5.88	4.75	9.99	65.13
1985	1.82	3.70	3.67	6.85	4.13	4.85	0.85	5.89	9.23	7.26	4.29	1.34	53.88
1986	1.44	3.73	3.16	1.55	8.51	1.50	7.07	4.33	3.69	4.45	3.59	3.11	46.13
1987	0.99	3.93	1.93	2.30	1.43	4.03	2.58	1.31	2.80	1.58	4.29	9.19	36.36
1988	3.50	5.15	4.60	2.13	3.14	0.41	3.08	1.05	3.49	3.81	9.56	3.05	42.97
1989	5.31	13.33	5.36	2.55	2.33	9.20	7.07	1.80	2.64	3.48	2.59	1.78	57.44
1990	5.38	9.05	3.69	4.76	7.49	2.14	4.03	1.34	2.38	4.45	2.33	9.59	56.63
1991	3.77	4.07	3.55	3.81	4.29	1.47	3.23	2.42	3.25	3.57	2.17	3.84	39.44
1992	2.13	2.68	3.38	2.07	2.08	3.57	6.90	3.47	5.81	3.51	3.45	1.79	40.84
1993	3.79	3.99	2.99	5.14	2.59	5.51	0.56	2.89	6.00	3.82	6.45	3.57	47.30
1994	4.06	2.70	3.55	7.39	0.71	2.34	2.40	1.73	3.43	2.93	3.55	3.72	38.51
1995	4.20	3.26	1.78	4.34	5.68	4.19	3.28	3.52	1.47	2.30	2.72	1.89	38.63
1996	3.38	1.09	3.25	4.62	5.22	7.81	6.11	.11	7.26	4.13	8.89	4.90	56.77
1997	2.62	5.32	7.42	5.03	7.95	6.59	2.78	2.86	2.41	2.92	2.33	2.46	50.69
1998	3.06	4.75	3.52	5.41	3.23	10.98	8.04	3.15	0.12	7.37	2.63	3.71	55.97
1999	6.43	1.94	3.09	6.60	3.71	8.97	0.28	0.54	0.66	3.93	0.90	4.04	41.09
2000	6.36	5.11	4.25	4.63	5.16	3.39	5.18	1.85	3.68	1.24	4.76	2.84	48.45
2001	1.04	5.44	2.50	1.85	4.42	2.06	7.40	4.21	3.90	6.36	7.74	8.68	55.60
2002	5.84	1.62	7.64	6.32	8.78	0.83	2.16	1.72	5.84	3.90	2.60	7.07	54.32
2003	1.15	6.60	1.95	5.96	6.04	5.17	2.78	3.61	5.05	2.14	5.17	2.20	47.82
2004	3.06	1.62	3.55	3.94	5.73	4.17	1.75	1.57	0.02	4.86	7.04	3.32	40.63
2005	4.60	2.55	3.85	4.56	0.82	3.64	4.24	6.07	3.49	0.11	2.06	1.46	37.45
2006	6.28	2.72	5.46	3.46	6.89	2.98	8.02	4.29	11.65	5.24	5.65	4.47	67.11
2007	6.43	2.81	2.88	2.89	2.53	5.09	2.24	1.17	1.99	5.82	2.11	7.37	43.33
2008	3.16	5.13	9.60	6.77	5.63	2.89	6.94	0.83	1.03	3.29	2.66	5.76	53.69
POR= 59 YRS	3.85	3.78	4.50	4.69	4.77	4.31	4.08	3.04	3.58	3.25	4.18	4.37	48.40

WBAN : 03816

**AVERAGE TEMPERATURE (°F) 2008 PADUCAH (KPAH)**

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1984	29.2	42.1	43.6	56.7	64.6	78.6	76.7	76.9	68.5	63.1	45.0	45.2	57.5
1985	23.9	32.0	51.3	60.9	66.8	73.3	78.4	74.8	68.8	62.4	52.5	31.3	56.4
1986	35.5	40.3	49.7	60.6	68.7	77.4	81.7	73.8	73.8	60.1	45.1	36.9	58.6
1987	33.5	40.9	50.2	57.4	73.0	78.2	79.5	79.8	71.6	53.4	50.9	41.1	59.1
1988	32.2	35.1	47.5	57.4	67.3	75.8	80.4	80.9	70.8	52.8	48.4	38.2	57.2
1989	41.4	32.8	48.1	57.3	64.6	73.6	78.3	77.7	69.3	59.9	48.6	27.1	56.6
1990	43.8	45.7	51.5	55.9	63.9	76.4	78.8	75.9	72.1	56.8	53.5	39.9	59.5
1991	34.2	41.9	51.4	62.3	72.5	78.0	80.9	78.4	71.1	61.1	45.4	41.9	59.9
1992	38.1	45.6	49.7	59.2	66.0	73.6	79.7	74.0	69.0	58.5	48.2	38.7	58.4
1993	38.3	36.9	46.6	55.9	67.3	76.5	84.3	78.7	67.3	56.1	45.6	38.5	57.7
1994	29.1	39.6	47.6	60.4	64.1	78.2	78.1	75.0	67.5	59.8	52.4	42.5	57.9
1995	37.0	37.5	51.4	59.7	67.5	75.3	79.5	80.8	66.9	58.9	42.0	36.6	57.8
1996	32.7	37.9	41.0	53.9	69.7	75.3	75.9	76.6	67.8	58.3	43.0	40.2	56.0
1997	31.9	42.5	50.1	52.5	62.1	73.1	78.4	75.2	68.8	57.8	42.5	37.0	56.0
1998	40.5	44.1	47.4	56.5	71.1	76.4	78.7	77.0	74.9	61.2	50.6	40.6	59.9
1999	37.7	43.7	43.7	60.1	66.0	75.6	81.6	76.4	69.4	59.1	53.2	40.4	58.9
2000	36.3	44.6	50.3	55.2	69.2	74.8	77.2	78.6	69.4	62.2	44.5	25.9	57.4
2001	32.3	41.8	42.8	63.2	68.4	73.4	79.2	78.0	67.9	57.9	51.7	41.8	58.2
2002	39.6	39.6	45.3	60.3	65.4	77.7	81.8	79.4	73.5	57.6	44.6	38.2	58.6
2003	29.0	34.2	48.2	59.6	66.4	70.7	78.3	78.1	67.0	59.0	51.5	39.4	56.8
2004	34.3	37.8	52.1	58.3	71.2	74.0	76.1	72.6	70.5	61.6	51.1	35.8	58.0
2005	40.2	43.4	45.9	58.2	65.1	76.0	78.3	80.1	72.7	59.1	49.9	34.4	58.6
2006	44.1	37.0	48.8	62.7	66.5	75.5	78.5	78.5	66.4	56.0	48.1	42.8	58.7
2007	37.4	34.0	56.7	55.6	70.5	76.0	76.6	83.6	73.7	62.7	47.0	40.1	59.5
2008	34.3	37.8	48.2	55.8	65.3	77.0	78.9	76.0	71.6	59.1	44.6	37.3	57.2
POR= 59 YRS	34.3	37.9	47.1	57.7	67.0	75.0	78.9	76.6	69.7	59.0	47.1	37.8	57.3

**HEATING DEGREE DAYS (base 65°F) 2008 PADUCAH (KPAH)**

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1983-84							1103	659	656	269	82	0	
1984-85	0	0	69	108	591	611	1269	918	431	170	48	10	4225
1985-86	0	0	67	151	378	1037	909	688	475	173	47	0	3925
1986-87	0	8	3	191	589	863	968	671	451	249	7	0	4000
1987-88	0	0	12	356	419	735	1011	861	534	239	38	0	4205
1988-89	0	0	16	383	491	825	726	897	525	292	115	0	4270
1989-90	0	0	42	193	488	1165	651	534	438	313	89	10	3923
1990-91	0	1	28	273	352	771	949	642	429	119	18	0	3582
1991-92	0	0	72	190	585	709	827	556	470	228	86	5	3728
1992-93	0	0	39	203	502	808	818	781	565	279	40	8	4043
1993-94	0	0	54	293	581	812	1110	705	531	185	93	0	4364
1994-95	0	0	38	186	372	691	864	761	415	207	64	0	3598
1995-96	0	0	61	197	686	874	994	782	739	337	46	3	4719
1996-97	0	0	40	216	656	760	1019	625	455	372	129	5	4277
1997-98	0	0	18	292	670	860	750	577	576	255	26	9	4033
1998-99	0	0	2	158	428	754	839	588	654	168	32	0	3623
1999-00	0	0	45	213	356	755	884	590	450	293	29	3	3618
2000-01	0	0	55	153	611	1205	1006	643	682	147	30	8	4540
2001-02	0	0	60	236	396	713	781	705	603	203	100	0	3797
2002-03	0	0	9	267	606	825	1109	854	514	187	36	15	4422
2003-04	0	0	43	200	408	784	948	782	409	231	41	0	3846
2004-05	0	12	12	140	412	898	760	598	587	210	97	0	3726
2005-06	0	0	21	233	457	941	644	779	511	134	62	0	3782
2006-07	0	0	50	308	503	681	848	862	300	312	27	0	3891
2007-08	0	0	8	165	533	768	940	784	516	283	66	0	4063
2008-	0	0	6	225	604	850							

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**COOLING DEGREE DAYS (base 65°F) 2008 PADUCAH (KPAH)**

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1984	0	0	0	29	76	415	369	375	182	53	0	2	1501
1985	0	1	11	52	112	263	419	309	186	77	9	0	1439
1986	0	0	6	50	169	379	524	286	273	47	0	0	1734
1987	0	0	0	29	258	402	458	465	213	3	3	0	1831
1988	0	0	0	19	117	333	482	499	197	11	0	0	1658
1989	0	0	11	68	108	266	419	398	177	42	3	0	1492
1990	0	0	26	46	63	356	435	344	247	28	12	0	1557
1991	0	0	13	40	252	396	499	424	262	75	4	0	1965
1992	0	0	0	58	123	270	463	285	166	12	5	0	1382
1993	0	0	2	11	120	360	604	430	131	23	5	0	1686
1994	0	0	0	52	70	406	413	317	115	31	5	0	1409
1995	1	0	3	54	149	315	457	495	125	16	0	0	1615
1996	0	4	0	12	197	316	345	367	132	16	1	0	1390
1997	0	0	0	3	49	253	425	321	142	78	0	0	1271
1998	0	0	36	9	223	357	429	384	304	50	2	4	1798
1999	0	0	0	28	69	324	520	361	185	37	7	0	1531
2000	0	4	3	4	164	305	383	428	196	75	4	0	1566
2001	0	0	0	101	141	268	446	410	152	20	2	0	1540
2002	1	0	0	70	120	387	526	453	274	46	0	0	1877
2003	0	0	0	32	87	194	419	414	112	21	10	0	1289
2004	2	0	11	36	239	275	350	252	184	42	3	0	1394
2005	1	0	1	13	106	335	419	474	260	59	17	0	1685
2006	0	0	19	74	117	319	427	425	99	32	0	0	1512
2007	0	0	48	35	205	338	369	584	274	105	0	0	1958
2008	0	2	0	15	83	366	438	347	210	47	0	0	1508

**SNOWFALL (inches) 2008 PADUCAH (KPAH)**

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1983-84							4.3	11.2	T	0.0	0.0	0.0	
1984-85	0.0	0.0	0.0	0.0	0.0	7.1	16.8	4.8	0.0	0.0	0.0	0.0	28.7
1985-86	0.0	0.0	0.0	0.0	0.0	2.0	0.6	8.3	T	0.0	0.0	0.0	10.9
1986-87	0.0	0.0	0.0	0.0	T	T	2.4	1.7	1.3	0.0	0.0	0.0	5.4
1987-88	0.0	0.0	0.0	0.0	0.0	3.4	3.0	1.4	2.8	T	0.0	0.0	10.6
1988-89	0.0	0.0	0.0	0.0	0.0	2.2	T	3.6	T	0.0	0.0	0.0	5.8
1989-90	0.0	0.0	0.0	T	T	1.7	0.1	1.0	0.7	T	0.0	T	3.5
1990-91	0.0	0.0	0.0	0.0	0.0	3.4	0.2	T	T	0.0	0.0	0.0	3.6
1991-92	0.0	0.0	0.0	0.0	T	0.0	T	T	T	T	0.0	0.0	T
1992-93	T	0.0	0.0	0.0	T	3.0	0.3	15.3	0.7	T	0.0	T	19.3
1993-94	0.0	0.0	0.0	2.2	T	0.4	7.7	0.7	7.4	0.0	0.0	0.0	18.4
1994-95	0.0	0.0	0.0	0.0	0.0	0.0	0.2	1.9	0.2	0.0	0.0	0.0	2.3
1995-96	0.0	0.0	0.0	0.0	T	2.3	5.3	3.9	1.3	0.0			
1996-97					.2	1.9	4.1	5.3	0.0	T		0.0	
1997-98	0.0		0.0		0.4	1.8	T	0.1	0.7	T	0.0	0.0	
1998-99	0.0	0.0	0.0	0.0	0.0	0.7	1.6	0.6	T	0.0	0.0	0.0	2.9
1999-00	0.0	0.0	0.0	0.0	0.0	T	2.4	0.7	0.4	T	0.0	0.0	3.5
2000-01	0.0	0.0	0.0	0.0	0.0	6.4	1.3	0.4	0.0	T	0.0	0.0	8.1
2001-02	0.0	0.0	T	0.0	0.0	T	7.8	T	T	0.0	0.0	0.0	7.8
2002-03	0.0	0.0	0.0	0.0	0.2	5.9	6.8	11.0	0.0	T	0.0	0.0	23.9
2003-04	0.0	0.0	0.0	0.0	T	0.1	0.2	2.5	0.0	0.0	0.0	0.0	2.8
2004-05	0.0	0.0	0.0	0.0	0.0	14.2	T	T	T	T	0.0	0.0	14.2
2005-06	0.0	0.0	0.0	0.0	0.0	0.9	0.8	7.3	T	T	T	0.0	9.0
2006-07	0.0	0.0	0.0	0.0	0.0	T	T	2.5	T	T	0.0	0.0	2.5
2007-08	0.0	0.0	0.0	T	T	0.2	1.7	1.6	1.9	T	0.0	0.0	5.4
2008-	0.0	0.0	0.0	0.0	T	0.8							
POR= 57 YRS	T	0.0	T	T	0.2	1.6	3.3	2.9	1.5	0.1	T	T	9.6

WBAN : 03816

**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.</p>	<p>GENERAL CONTINUED: 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. 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.</p> <p>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.</p> <p><b>NOTE:</b> 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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# 2008 PADUCAH KENTUCKY (KPAH)

Paducah is in western Kentucky, in Low Hills and Bottom Area of the Jackson Purchase Region. It lies on level to gently rolling open terrain on the banks of the Ohio just west of the point where the Tennessee River, the largest tributary of the Ohio, flows into the Ohio River. The city is about 20 miles west of the large recreational area which includes Kentucky Lake, Land Between the Lake, and Barkley Lake. Paducah is the county seat of McCracken county and lies along the northeast border of the county. This summary is representative of Paducah and the general area.

The climate is temperate with moderately cold winters and warm humid summers. Temperature, rainfall and humidity remain within limits agreeable to man and suitable for varied plant and animal life. All seasons are marked by weather changes that come from passing weather fronts and associated centers of high and low pressure. This activity is least in the spring and summer months, somewhat greater in the fall, and greatest in the winter and early spring. Temperatures depart least from the average during the period of minimum activity and vary from the average most during the period of greatest activity.

Precipitation is fairly well distributed throughout the year, with no wet season and dry season. The month of October usually has the least rainfall. Annual free-water evaporation, i.e. from shallow lakes and from ponds, average about 37 inches, about 9 inches less than the average annual precipitation. About 75% of this evaporation occurs during the 6-month period May-October.

Periods of dry and wet weather (below or above average) do occur. Of the mid-seasonal months, January in 1 out of 10 years has less than 29% of average and in 1 out of 5 years has less than 46% of average. April, July and October in 1 out of 10 years has less than 31 to 49% of average, and in 1 out of 5 years less than 49 to 54% of average. In 1 out of 10 years January has an amount greater than 2.3 times the average amount, the other mid-seasonal months having amounts greater than 1.6 to 2.1 times the average amounts.

Snowfall is quite variable from year to year. Some winters have little. The greatest annual total for the period of record was 37.7 inches in 1960. The least recorded was 0 in 1953 and 1957. Thunderstorms occur on average of 52 days a year. They are most frequent in the spring and summer months but can occur in any month.

Winds flow most frequently from the south to southwest. Wind speeds average from 6 to 8 mph May through October and 9 to 11 mph November through April.

Relative humidity and sunshine records are not available for this location, but estimates for these elements are possible from data. Relative humidity rises and falls in a manner opposite to that of temperature during the typical day, with the highest humidity usually occurring with the minimum temperature, and the lowest humidity usually with the highest temperature of the day.

The growing season (defined as the number of days between the last spring and the first fall temperature of 32 degrees) average about 209 days. The season is 230 days or more in 10% of the years, and 220 days in 25% of the years.

This area has a favorable and moderate climate, with many of the days of the year being nearly ideal in temperature. The fall season has many mild, sunny days and is considered one of the better times of the year for outdoor activities.

# Station Location

PADUCAH

LOCATION	Occupied From	Occupied To	Airline Distances and Directions from previous Location	Latitude		Longitude		ELEVATION ABOVE								REMARKS	
				NORTH	WEST	SEA LEVEL	GROUND							AUTOMATIC OBSERVING EQUIPMENT *			
						GROUND TEMPERATURE SITE	WIND INSTRUMENT	EXTREME THERMOMETERS	PSYCHROMETER	SUNSHINE SWITCH	TIPPING BUCKET RAIN GAUGE	WEIGHING RAIN GAUGE	8 INCH RAIN GAUGE		HYGROTHERMOMETER		
<u>AIRPORT</u>																	
Fisher Road Barkley Regional Airport	10/1/84	08/01/95	NA	37° 04'	88° 46'	402	33	4	NA	6	4	4	4	4	4	NA	WSO established. a. Type change 8/30/85.
Barkley Regional AP	08/01/95	Present	NA	37° 03'	88° 46'	b391									S	ASOS Commissioned 08/01/95 b. Ground elevation.	

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