

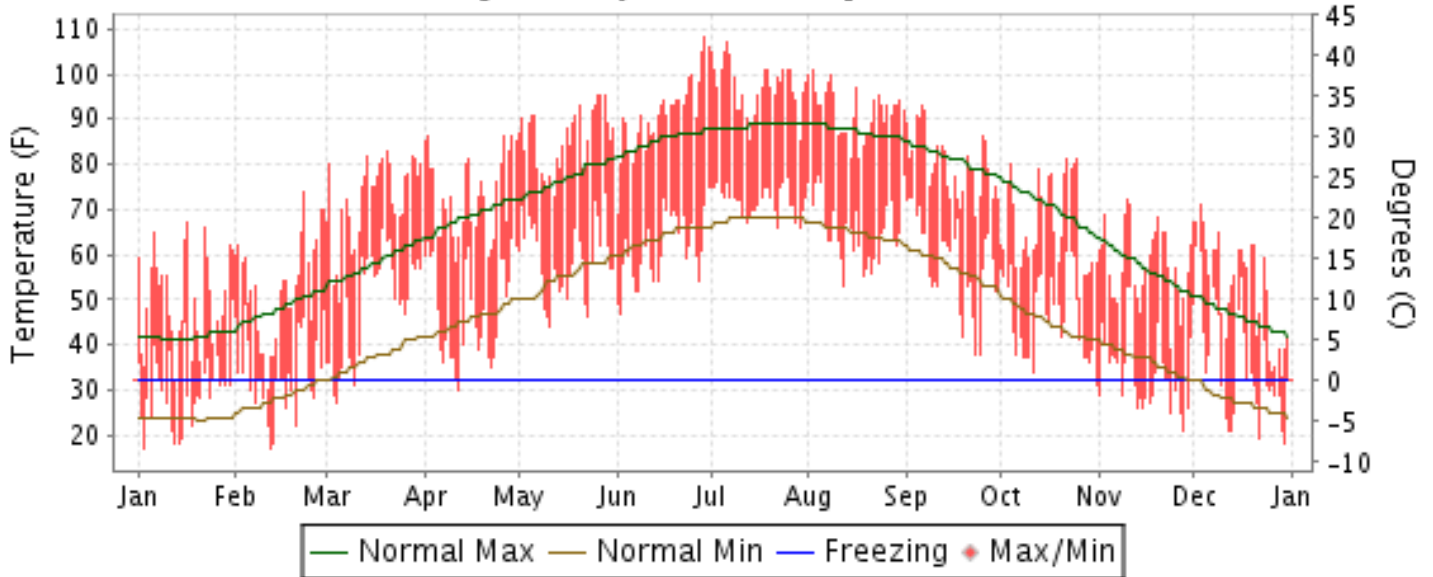


2012 LOCAL CLIMATOLOGICAL DATA ANNUAL SUMMARY WITH COMPARATIVE DATA

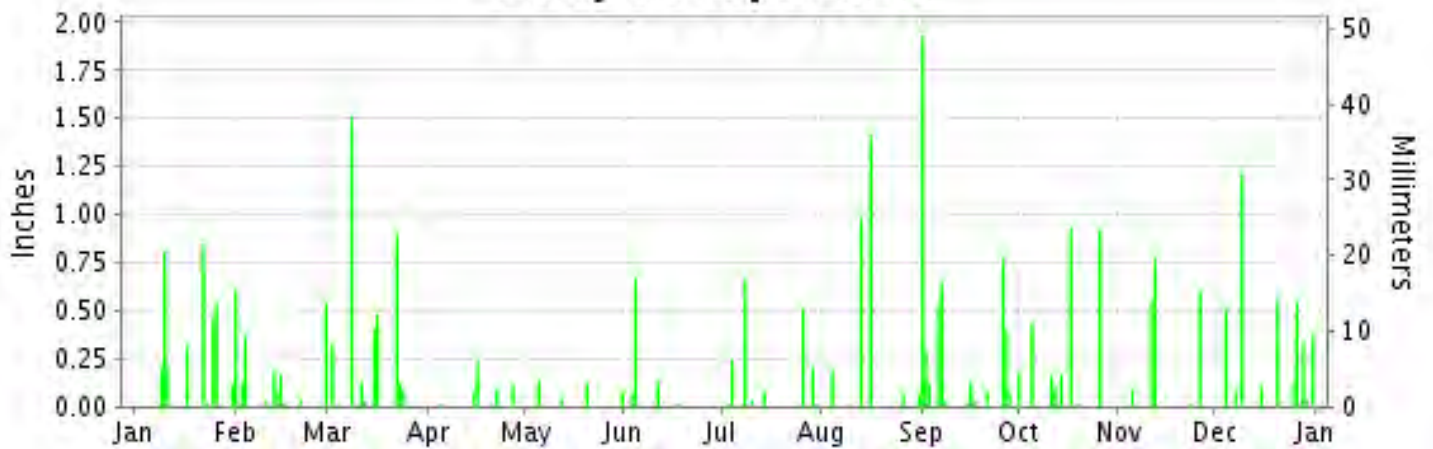
ISSN 0888-9988

PADUCAH, KENTUCKY (KPAH)

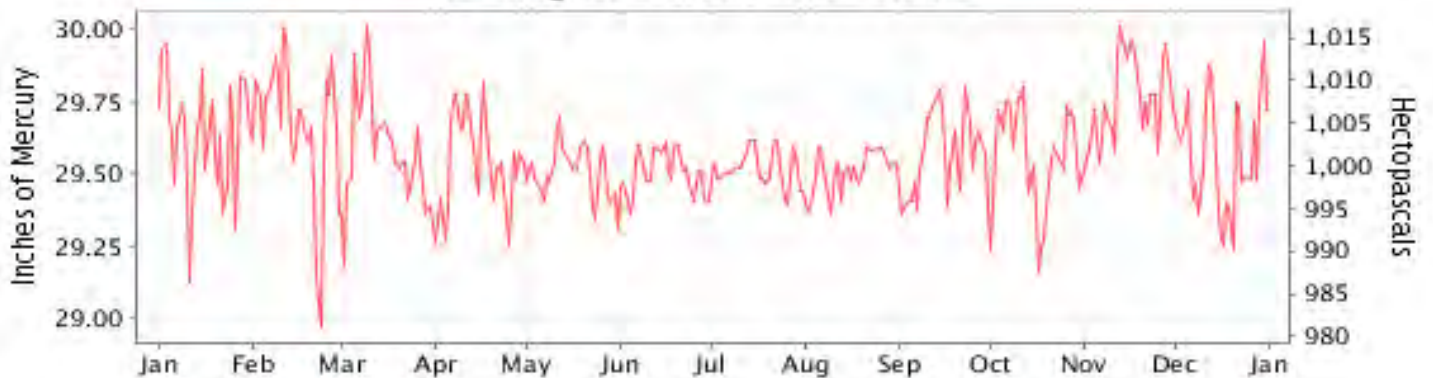
Daily Max/Min Temperature



Daily Precipitation



Daily Station Pressure



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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

PADUCAH (KPAH)

LATITUDE: 37° 3'N LONGITUDE: 88° 46'W ELEVATION (FT): GRND: 413 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	50.1	52.7	72.2	72.9	85.6	91.1	97.0	91.6	79.8	66.7	57.6	52.8	72.5	
	HIGHEST DAILY MAXIMUM	67	74	83	86	95	108	107	101	93	81	72	71	108	
	DATE OF OCCURRENCE	17	23	20	29+	28+	29	06	02	06	25+	10	03	JUN 29	
	MEAN DAILY MINIMUM	30.1	33.4	49.0	47.6	59.1	61.4	72.0	65.4	58.4	46.4	33.7	35.8	49.4	
	LOWEST DAILY MINIMUM	17	17	27	30	44	47	66	53	38	31	21	18	17	
	DATE OF OCCURRENCE	03	12	04	12	11	02	29+	12	24+	31	28	30	FEB 12	
	AVERAGE DRY BULB	40.1	43.1	60.6	60.3	72.4	76.3	84.5	78.5	69.1	56.6	45.7	44.3	61.0	
	MEAN WET BULB	36.2	39.1	53.9	53.9	63.5	65.0	73.6	67.8	63.2	50.7	40.4	41.3	54.1	
	MEAN DEW POINT	29.6	32.7	47.5	47.6	57.4	57.6	68.9	61.5	59.0	45.0	34.2	36.7	48.1	
	NUMBER OF DAYS WITH:														
	MAXIMUM >= 90°	0	0	0	0	10	19	28	20	4	0	0	0	0	81
	MAXIMUM <= 32°	1	1	0	0	0	0	0	0	0	0	0	0	0	2
MINIMUM <= 32°	21	14	3	1	0	0	0	0	0	1	14	16	70		
MINIMUM <= 0°	0	0	0	0	0	0	0	0	0	0	0	0	0		
H/C	HEATING DEGREE DAYS	766	631	189	210	12	7	0	0	40	280	572	635	3342	
	COOLING DEGREE DAYS	0	0	60	76	247	356	613	429	171	25	0	1	1978	
RH	MEAN (PERCENT)	68	68	65	65	62	57	64	60	73	67	68	75	66	
	HOUR 00 LST	73	72	72	77	77	74	79	76	86	76	78	80	77	
	HOUR 06 LST	75	79	80	81	82	79	83	83	88	83	81	84	82	
	HOUR 12 LST	58	57	53	48	43	37	46	42	58	53	50	67	51	
	HOUR 18 LST	64	62	55	53	47	38	52	45	64	59	61	74	56	
W/O	NUMBER OF DAYS WITH:														
	HEAVY FOG(VISBY <= 1/4 MI)	2	4	2	1	1	1	0	1	0	1	3	2	18	
	THUNDERSTORMS	3	3	4	2	3	2	7	3	7	4	0	2	40	
PR	MEAN STATION PRESS. (IN.)	29.62	29.67	29.59	29.54	29.51	29.51	29.52	29.51	29.57	29.56	29.75	29.58	29.58	
	MEAN SEA-LEVEL PRESS. (IN.)	30.07	30.12	30.04	29.98	29.95	29.94	29.95	29.95	30.00	30.01	30.20	30.03	30.02	
WINDS	RESULTANT SPEED (MPH)	2.6	1.6	3.7	1.0	0.9	0.8	2.1	0.6	1.2	1.9	0.8	1.8	1.4	
	RES. DIR. (TENS OF DEGS.)	25	27	20	24	19	19	22	17	24	27	24	24	24	
	MEAN SPEED (MPH)	8.5	7.1	8.0	6.9	5.7	5.8	5.6	5.0	5.4	7.3	4.9	7.2	6.5	
	PREVAIL.DIR.(TENS OF DEGS.)	21	21	17	22	17	23	23	22	17	18	17	21	23	
	MAXIMUM 2-MINUTE WIND														
	SPEED (MPH)	44	32	46	25	23	37	31	43	35	31	28	41	46	
	DIR. (TENS OF DEGS.)	26	25	24	17	02	35	06	29	28	30	18	25	24	
	DATE OF OCCURRENCE	22	29	02	15	13	11	08	16	06	17	11	20	MAR 02	
	MAXIMUM 3-SECOND WIND:														
	SPEED (MPH)	53	43	59	40	31	45	53	59	48	41	41	54	59	
DIR. (TENS OF DEGS.)	26	23	24	15	22	35	01	31	26	15	18	25	31		
DATE OF OCCURRENCE	22	23	02	15	01	11	04	16	06	17	11	20	AUG 16		
PRECIPITATION	WATER EQUIVALENT:														
	TOTAL (IN.)	3.55	2.19	4.00	0.56	0.39	0.90	1.78	2.75	5.06	2.92	2.04	3.91	30.05	
	GREATEST 24-HOUR (IN.)	1.02	0.61	1.51	0.32	0.14	0.71	0.67	1.42	2.11	0.93	1.33	1.21	2.11	
	DATE OF OCCURRENCE	10-11	01	08	15-16	05	03-04	08	16	01-02	17	11-12	09	SEP 01-02	
	NUMBER OF DAYS WITH:														
PRECIPITATION 0.01	11	12	10	6	4	4	9	7	13	8	5	10	99		
PRECIPITATION 0.10	8	6	7	2	2	2	4	3	8	7	3	8	60		
PRECIPITATION 1.00	0	0	1	0	0	0	0	1	1	0	0	1	4		
SNOWFALL	SNOW,ICE PELLETS,HAIL														
	TOTAL (IN.)	0.1	0.3	T	T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.7	6.1	
	GREATEST 24-HOUR (IN.)	0.1	0.2	T	T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.6	4.6	
	DATE OF OCCURRENCE	12	11	02	22								26	DEC 26	
	MAXIMUM SNOW DEPTH (IN.)	0	0	0	0	0	0	0	0	0	0	0	5	5	
	DATE OF OCCURRENCE												26	DEC 26	
NUMBER OF DAYS WITH:															
SNOWFALL >= 1.0	0	0	0	0	0	0	0	0	0	0	0	1	1		

NORMALS, MEANS, AND EXTREMES PADUCAH (KPAH)

LATITUDE: 37° 3'N LONGITUDE: 88° 46'W ELEVATION (FT): GRND: 413 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	43.4	48.9	59.0	69.4	78.0	86.2	89.3	89.0	82.1	71.0	58.4	46.3	68.4
	MEAN DAILY MAXIMUM	63	43.0	47.3	57.7	68.8	77.7	85.7	89.2	87.3	81.3	71.0	57.3	46.6	67.7
	HIGHEST DAILY MAXIMUM	29	70	77	84	90	95	108	107	105	100	92	83	74	108
	YEAR OF OCCURRENCE		2008	1996	1986	1987	2012	2012	2012	2007	1999	2007	2005	2008	JUN 2012
	MEAN OF EXTREME MAXS.	63	64.9	68.8	77.7	84.3	89.1	95.5	97.3	96.4	92.6	85.7	76.0	66.5	82.9
	NORMAL DAILY MINIMUM	30	25.8	29.5	37.7	46.6	56.3	64.9	68.5	66.1	57.8	46.7	37.9	28.6	47.2
	MEAN DAILY MINIMUM	63	25.4	28.5	37.2	46.9	56.5	64.5	68.7	66.0	58.2	46.9	37.1	29.1	47.1
	LOWEST DAILY MINIMUM	29	-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.	63	5.4	9.8	20.2	30.4	41.1	52.1	57.9	54.8	42.1	30.5	20.6	10.4	31.3
	NORMAL DRY BULB	30	34.6	39.2	48.3	58.0	67.2	75.6	78.9	77.5	69.9	58.8	48.1	37.5	57.8
	MEAN DRY BULB	63	34.3	37.9	47.5	57.9	67.1	75.2	79.0	76.7	69.8	58.9	47.2	37.8	57.4
	MEAN WET BULB	27	31.3	34.9	42.0	50.6	60.2	67.6	71.3	69.4	62.2	51.3	42.1	34.0	51.4
	MEAN DEW POINT	27	28.8	31.3	38.7	47.6	58.1	66.1	70.0	68.2	60.4	49.0	39.5	31.5	49.1
	NORMAL NO. DAYS WITH: MAXIMUM >= 90	30	0.0	0.0	0.0	0.0	0.7	9.1	15.0	13.3	4.2	0.1	0.0	0.0	42.4
	MAXIMUM <= 32	30	5.1	2.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	3.4	11.2
MINIMUM <= 32	30	22.5	17.0	10.0	2.1	0.0	0.0	0.0	0.0	0.0	2.0	8.8	19.8	82.2	
MINIMUM <= 0	30	0.7	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	1.2	
H/C	NORMAL HEATING DEG. DAYS	30	942	723	523	245	64	4	0	1	38	228	510	854	4132
	NORMAL COOLING DEG. DAYS	30	0	0	7	35	130	320	431	390	187	38	4	0	1542
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	49	56	61	62	66	71	70	65	64	51	44	59
W/O	MEAN NO. DAYS WITH: HEAVY FOG(VISBY <= 1/4 MI)	49	2.4	1.7	1.1	0.5	0.9	1.0	1.6	2.9	3.5	2.5	1.4	2.2	21.7
	THUNDERSTORMS	54	1.4	1.5	3.8	5.4	7.7	7.8	7.6	6.1	3.8	2.3	2.0	1.0	50.4
CLOUDINESS	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)	28	29.69	29.67	29.61	29.54	29.54	29.53	29.56	29.57	29.60	29.63	29.66	29.69	29.61
	MEAN SEA-LEVEL PRES. (IN)	28	30.15	30.12	30.05	29.98	29.97	29.96	29.99	30.00	30.03	30.08	30.11	30.15	30.05
WINDS	MEAN SPEED (MPH)	27	8.5	8.5	9.0	8.5	6.9	5.9	5.4	4.9	5.3	6.3	7.7	8.0	7.1
	PREVAIL.DIR.(TENS OF DEGS)	30	22	22	21	21	22	22	23	22	19	19	22	21	23
	MAXIMUM 2-MINUTE: SPEED (MPH)	17	44	51	48	59	45	46	51	43	39	43	35	44	59
	DIR. (TENS OF DEGS)		26	25	24	26	24	36	34	29	01	24	28	24	26
	YEAR OF OCCURRENCE		2012	2009	2006	2011	2011	2009	2002	2012	2011	1996	2010	2008	APR 2011
	MAXIMUM 3-SECOND SPEED (MPH)	17	64	63	61	79	70	64	70	59	56	52	48	59	79
	DIR. (TENS OF DEGS)		26	24	24	29	24	36	33	31	22	25	29	24	29
YEAR OF OCCURRENCE		2008	2009	2006	2011	2011	2009	2002	2012	2008	1996	2010	2008	APR 2011	
PRECIPITATION	NORMAL (IN)	30	3.68	3.91	3.93	4.76	4.94	4.06	4.44	2.76	3.75	3.96	4.30	4.59	49.08
	MAXIMUM MONTHLY (IN)	29	6.43	13.33	9.60	15.91	8.78	10.98	8.67	6.07	11.65	10.55	10.00	9.99	15.91
	YEAR OF OCCURRENCE		2007	1989	2008	2011	2002	1998	2009	2005	2006	2009	2011	1984	APR 2011
	MINIMUM MONTHLY (IN)	29	0.99	1.09	1.78	0.56	0.39	0.41	0.28	0.11	0.02	.11	0.56	1.34	0.02
	YEAR OF OCCURRENCE		1987	1996	1995	2012	2012	1988	1999	1996	2004	2005	2009	1985	SEP 2004
	MAXIMUM IN 24 HOURS (IN)	29	5.82	6.34	4.24	4.55	3.88	4.11	4.87	3.64	7.53	5.25	4.90	4.12	7.53
	YEAR OF OCCURRENCE		2000	1989	2008	2011	2011	1989	2000	2005	1985	1998	1996	2001	SEP 1985
	NORMAL NO. DAYS WITH: PRECIPITATION >= 0.01	30	9.6	8.7	10.4	10.8	11.3	9.1	8.5	6.9	6.8	7.8	9.9	10.4	110.2
	PRECIPITATION >= 1.00	30	0.9	1.2	0.9	1.0	1.5	1.0	1.4	0.8	1.2	1.3	1.3	1.2	13.7
SNOWFALL	NORMAL (IN)	30	3.0	3.2	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	2.2	9.1
	MAXIMUM MONTHLY (IN)	29	16.8	15.3	7.4	T	T	T	T	0.0	T	2.2	0.4	14.2	16.8
	YEAR OF OCCURRENCE		1985	1993	1994	2012	2011	1993	1992		2001	1993	1997	2004	JAN 1985
	MAXIMUM IN 24 HOURS (IN)	29	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	2012	2011	1993	1992	1984	2001	1993	1997	2004	DEC 2004
	MAXIMUM SNOW DEPTH (IN)	54	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	1.0	1.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	2.8	

PRECIPITATION (inches) 2012 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
2009	4.06	2.57	2.74	4.68	6.13	2.77	8.67	3.73	4.72	10.55	0.56	4.42	55.60
2010	3.30	1.40	4.27	2.85	5.99	2.74	1.36	3.19	3.64	0.77	4.94	2.22	36.67
2011	1.14	5.79	6.56	15.91	8.74	6.75	3.83	1.46	5.92	1.46	10.00	7.29	74.85
2012	3.55	2.19	4.00	0.56	0.39	0.90	1.78	2.75	5.06	2.92	2.04	3.91	30.05
POR= 63 YRS	3.80	3.73	4.49	4.77	4.81	4.25	4.06	3.03	3.66	3.29	4.19	4.38	48.46

WBAN : 03816

AVERAGE TEMPERATURE (°F) 2012 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
2009	32.4	41.4	51.5	58.4	67.4	78.3	74.9	75.0	71.2	55.1	50.8	35.7	57.7
2010	29.9	32.6	48.3	62.1	69.6	79.6	81.7	81.8	72.3	60.0	48.1	32.1	58.2
2011	31.5	39.3	48.7	61.7	66.1	78.0	81.9	77.9	67.9	57.8	50.9	41.8	58.6
2012	40.1	43.1	60.6	60.3	72.4	76.3	84.5	78.5	69.1	56.6	45.7	44.3	61.0
POR= 63 YRS	34.3	37.9	47.5	57.9	67.1	75.2	79.0	76.7	69.8	58.9	47.2	37.8	57.4

HEATING DEGREE DAYS (base 65°F) 2012 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
2008-09	0	0	6	225	604	850	1005	655	419	251	47	3	4065
2009-10	0	0	15	303	418	903	1083	899	511	133	42	0	4307
2010-11	0	0	14	182	500	1013	1034	711	504	140	116	0	4214
2011-12	0	0	36	232	422	716	766	631	189	210	12	7	3221
2012-	0	0	40	280	572	635							

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COOLING DEGREE DAYS (base 65°F) 2012 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
2009	0	0	7	61	131	406	314	315	209	1	0	0	1444
2010	0	0	1	54	191	444	524	529	237	31	2	0	2013
2011	0	0	6	52	162	398	531	407	127	15	5	0	1703
2012	0	0	60	76	247	356	613	429	171	25	0	1	1978

SNOWFALL (inches) 2012 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
2008-09	0.0	0.0	0.0	0.0	T	0.8	2.4	0.5	T	0.0	0.0	0.0	3.7
2009-10	0.0	0.0	0.0	0.0	0.0	T	6.3	4.0	0.0	0.0	0.0	0.0	10.3
2010-11	0.0	0.0	0.0	0.0	T	5.6	4.3	9.0	T	T	T	0.0	18.9
2011-12	0.0	0.0	0.0	0.0	0.3	T	0.1	0.3	T	T	0.0	0.0	0.7
2012-	0.0	0.0	0.0	0.0	0.0	5.7							
POR= 61 YRS	T	0.0	T	T	0.2	1.7	3.3	2.9	1.4	0.1	T	T	9.6

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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.

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.

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 STATION HISTORY INFORMATION GO TO "Historical Observing Metadata Repository", URL IS:

<http://www.ncdc.noaa.gov/homr/>

SNOWFALL STOPPED MONTH & YEAR INDICATED ABOVE. NO FURTHER YEARS INCLUDED UNLESS RESTARTED.

NOTE:

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.

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.

- 1) A small number of stations did not correctly show number of days with thunderstorms and heavy fog.
- 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:
<http://www1.ncdc.noaa.gov/pub/data/normals/1981-2010/status.txt>.

2012 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 History

PADUCAH, KY

NAME	Begin Date	End Date	Latitude	Longitude	Elevation Feet	Relocation	Platform
PADUCAH BARKLEY FIELD	1949-09-01	1964-01-01	37° 4'	-88° 46'	397		AIRWAYS, COOP
PADUCAH BARKLEY FIELD	1981-12-31	1984-10-01	37° 4'	-88° 46'	394		COOP
PADUCAH BARKLEY FIELD	1995-02-28	1995-04-01	37° 4'	-88° 46'	392		COOP, WXSVC
PADUCAH BARKLEY FIELD	1946-06-01	1949-09-01	37° 4'	-88° 46'			AIRWAYS
PADUCAH BARKLEY FIELD	1984-10-01	1993-08-01	37° 4'	-88° 46'	402	.3 MI SW	COOP
PADUCAH BARKLEY REGIONAL AP	2006-11-01	2007-07-06	37° 3'	-88° 46'	413		AIRSAMPLE, ASOS, COOP, WXSVC
PADUCAH BARKLEY REGIONAL AP	2001-03-25	2004-06-29	37° 3'	-88° 46'	413	.8 MI S	ASOS, COOP, WXSVC
PADUCAH BARKLEY FIELD	1994-03-01	1995-02-28	37° 4'	-88° 46'	402		COOP, WXSVC
PADUCAH BARKLEY REGIONAL AP	1995-08-01	1996-06-01	37° 3'	-88° 46'	407		ASOS, COOP, WXSVC
PADUCAH BARKLEY FIELD	1964-01-01	1981-12-31	37° 4'	-88° 46'	394		AIRWAYS, COOP
PADUCAH BARKLEY REGIONAL AP	1996-06-01	2001-03-25	37° 3'	-88° 46'	407		ASOS, COOP, WXSVC
PADUCAH BARKLEY REGIONAL AP	2007-07-06	Present	37° 3'	-88° 46'	413		AIRSAMPLE, ASOS, COOP, WXSVC
PADUCAH BARKLEY FIELD	1995-04-01	1995-08-01	37° 4'	-88° 46'	392	.5 MI NW	COOP, WXSVC
PADUCAH BARKLEY REGIONAL AP	2004-06-29	2006-11-01	37° 3'	-88° 46'	413		ASOS, COOP, WXSVC
PADUCAH BARKLEY FIELD	1993-08-01	1994-03-01	37° 4'	-88° 46'	402		COOP

Element History

Element	Begin Date	End Date	Frequency	Time Of Observation	Equipment *	Equipment * Modifications	Equipment Exposure
MAX/MINTEM	1995-07-01	1995-08-01	DAILY	1800	PALMER		
TEMP	1995-08-01	2004-06-29	DAILY	2400	HYGR		
TEMP	1984-10-01	1993-08-01	DAILY	2400	HYGR		
PRECIP	1984-10-01	1993-08-01	DAILY	2400	UNIV	RCRD	
PRECIP	1946-06-01	1984-10-01	DAILY	2400			
TEMP	1946-06-01	1984-10-01	DAILY	2400	HYGR		
PRECIP	1993-08-01	1995-07-01	DAILY	2400	UNIV	RCRD	
PRECIP	1993-08-01	1995-07-01	HOURLY	2400			
PRECIP	2004-06-29	Present	DAILY	2400	PCPN1		
TEMP	2004-06-29	Present	DAILY	2400	HYGR		
MAX/MINTEM	1993-08-01	1995-07-01	DAILY	1800	PALMER		
MAX/MINTEM	1993-08-01	1995-07-01	DAILY	1800	PALMER		
MAX/MINTEM	1995-07-01	1995-08-01	DAILY	1800	PALMER		
PRECIP	1995-08-01	2004-06-29	DAILY	2400	TB	RCRD	
PRECIP	1984-10-01	1993-08-01	HOURLY	2400			
PRECIP	1995-07-01	1995-08-01	DAILY	2400	UNIV	RCRD	
PRECIP	1995-07-01	1995-08-01	HOURLY	2400	UNIV	RCRD	
TEMP	1993-08-01	1995-07-01	DAILY	2400	HYGR		
TEMP	1995-07-01	1995-08-01	DAILY	2400	HYGR		
PRECIP	1995-08-01	2004-06-29	HOURLY		TB	RCRD	
MAX/MINTEM	1995-08-01	2001-03-25	DAILY	1800	PALMER		
MAX/MINTEM	1995-08-01	2001-03-25	DAILY	1800	PALMER		
PRECIP	2004-06-29	Present	HOURLY	2400	AWPAG	RCRD;HTD	

* 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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NOAA/National Climatic Data Center

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Visit our Web Site for other weather data: www.ncdc.noaa.gov