

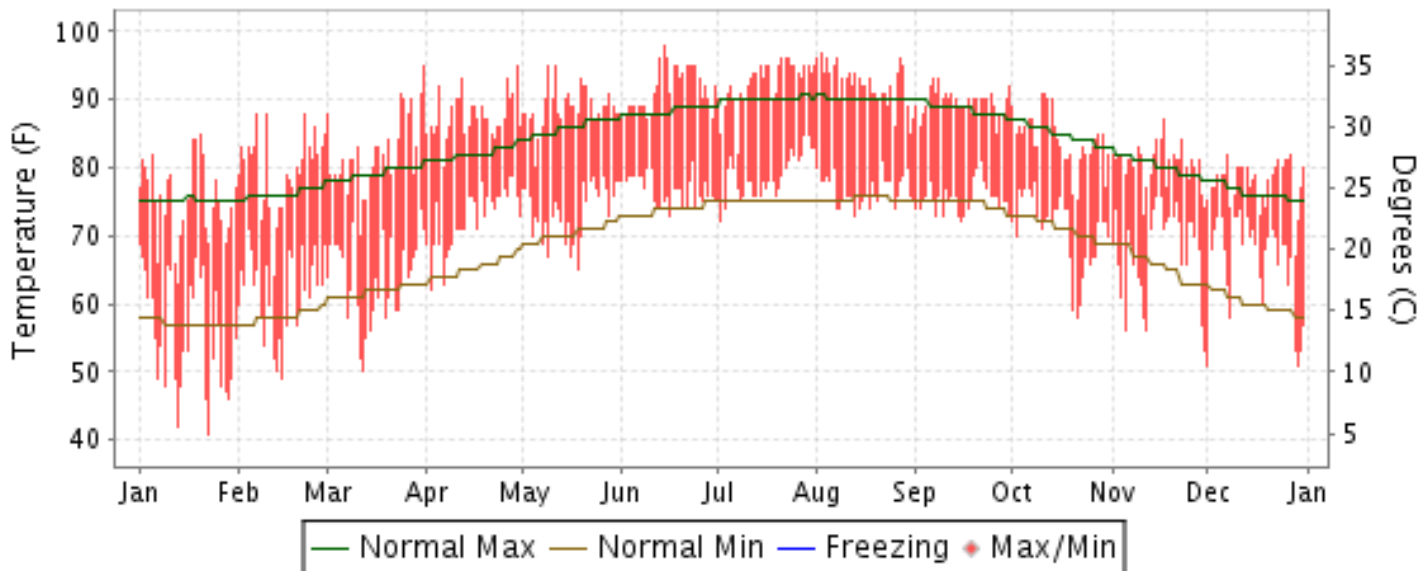


# 2011 LOCAL CLIMATOLOGICAL DATA ANNUAL SUMMARY WITH COMPARATIVE DATA

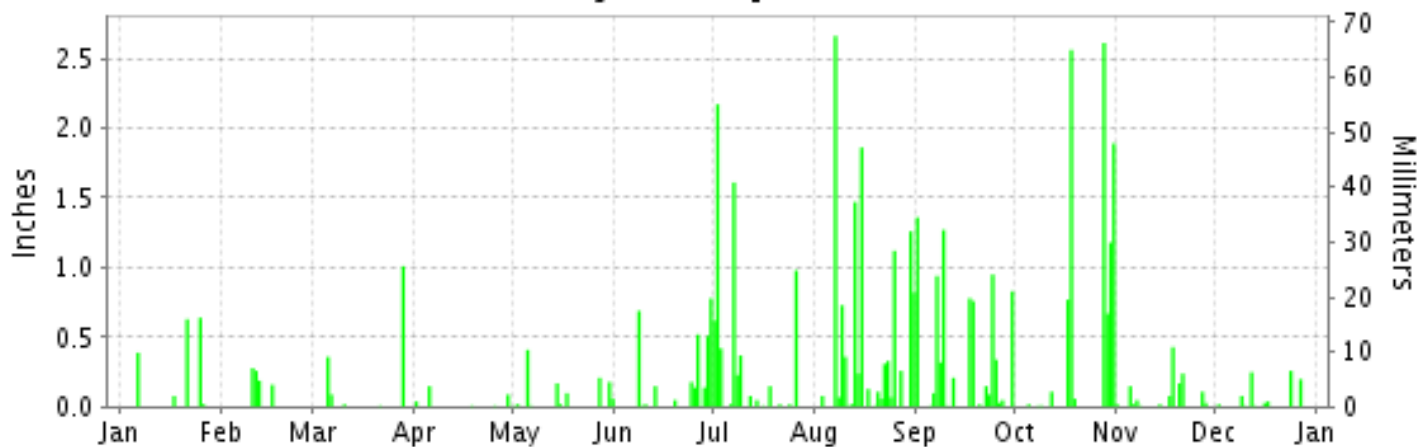
ISSN 0198-1315

## WEST PALM BEACH, FLORIDA (KPBI)

### Daily Max/Min Temperature



### Daily Precipitation



### Daily Station Pressure



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CLIMATIC DATA CENTER  
ASHEVILLE, NORTH CAROLINA

*Thomas R. Karl*  
DIRECTOR  
NATIONAL CLIMATIC DATA CENTER

# METEOROLOGICAL DATA FOR 2011

## WEST PALM BEACH (KPBI)

LATITUDE: 26° 41'N      LONGITUDE: -80° 5'W      ELEVATION (FT): GRND: 19 BARO: 19      TIME ZONE: EASTERN (UTC -5)      WBAN: 12844

ELEMENT		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	
TEMPERATURE °F	MEAN DAILY MAXIMUM	75.2	79.8	82.1	87.6	88.9	91.6	92.6	92.3	89.7	84.0	80.5	77.8	85.2	
	HIGHEST DAILY MAXIMUM	85	88	95	95	95	98	96	97	93	91	87	82	98	
	DATE OF OCCURRENCE	20	22+	31	29	11+	14	23+	02	08+	11+	17	27+	JUN 14	
	MEAN DAILY MINIMUM	55.8	61.8	63.6	72.7	73.6	76.8	78.8	76.7	75.5	70.9	67.7	66.1	70.0	
	LOWEST DAILY MINIMUM	41	49	50	62	65	73	72	73	72	58	53	51	41	
	DATE OF OCCURRENCE	23	15	12	02	18	16	02	13	15	21	30	29+	JAN 23	
	AVERAGE DRY BULB	65.5	70.8	72.9	80.2	81.3	84.2	85.7	84.5	82.6	77.5	74.1	72.0	77.6	
	MEAN WET BULB	59.8	64.1	64.8	71.3	71.7	75.3	77.3	77.5	76.1	70.6	68.6	65.8	70.2	
	MEAN DEW POINT	55.0	59.8	59.3	66.9	67.1	71.6	74.3	75.1	73.5	66.7	65.3	62.1	66.4	
	NUMBER OF DAYS WITH:														
	MAXIMUM >= 90°	0	0	5	8	11	19	28	26	18	4	0	0	0	119
	MAXIMUM <= 32°	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MINIMUM <= 32°	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
MINIMUM <= 0°	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
H/C	HEATING DEGREE DAYS	78	14	6	0	0	0	0	0	0	0	1	10	109	
	COOLING DEGREE DAYS	101	180	259	461	511	581	650	612	537	397	281	233	4803	
RH	MEAN (PERCENT)	71	71	65	66	64	69	72	77	76	71	76	73	71	
	HOUR 01 LST	79	80	75	77	72	77	81	84	85	79	82	77	79	
	HOUR 07 LST	83	80	72	69	65	70	74	79	80	75	79	78	75	
	HOUR 13 LST	55	53	49	53	52	57	59	67	63	61	65	64	58	
	HOUR 19 LST	69	72	66	68	65	74	72	80	78	72	79	74	72	
S	PERCENT POSSIBLE SUNSHINE														
W/O	NUMBER OF DAYS WITH:														
	HEAVY FOG(VISBY <= 1/4 MI)	2	1	0	1	0	0	0	0	0	0	0	0	4	
	THUNDERSTORMS	3	0	3	2	5	11	10	21	14	4	1	0	74	
CLOUDINESS	SUNRISE-SUNSET: (OKTAS)														
	CEILOMETER (<= 12,000 FT.)														
	SATELLITE (> 12,000 FT.)														
	MIDNIGHT-MIDNIGHT: (OKTAS)														
	CEILOMETER (<= 12,000 FT.)														
SATELLITE (> 12,000 FT.)															
NUMBER OF DAYS WITH:															
CLEAR															
PARTLY CLOUDY															
CLOUDY															
PR	MEAN STATION PRESS. (IN.)	30.01	30.08	30.06	30.00	29.95	29.96	29.96	29.89	29.91	29.90	30.03	30.11	29.99	
	MEAN SEA-LEVEL PRESS. (IN.)	30.04	30.11	30.09	30.03	29.97	29.98	29.99	29.91	29.94	29.93	30.05	30.13	30.01	
WINDS	RESULTANT SPEED (MPH)	1.0	2.6	3.6	6.4	5.7	4.9	4.7	2.0	3.4	4.9	6.4	6.4	3.7	
	RES. DIR. (TENS OF DEGS.)	24	13	09	12	11	10	12	19	11	06	06	08	10	
	MEAN SPEED (MPH)	8.5	8.4	9.7	9.9	9.4	8.5	7.3	7.3	6.2	10.0	11.4	10.2	8.9	
	PREVAIL.DIR.(TENS OF DEGS.)	32	15	09	13	10	09	12	24	12	07	08	08	08	
	MAXIMUM 2-MINUTE WIND														
	SPEED (MPH)	30	31	37	46	28	33	26	40	33	32	25	26	46	
	DIR. (TENS OF DEGS.)	35	22	31	31	23	18	28	27	08	09	14	32	31	
	DATE OF OCCURRENCE	25	07	10	05	15	30	08	10	24	09	28	07	APR 05	
	MAXIMUM 3-SECOND WIND:														
	SPEED (MPH)	40	44	51	59	33	41	36	53	45	39	32	31	59	
DIR. (TENS OF DEGS.)	30	16	30	27	23	18	29	36	06	07	10	08	27		
DATE OF OCCURRENCE	21	07	10	05	15	30	08	25	24	09	26	14	APR 05		
PRECIPITATION	WATER EQUIVALENT:														
	TOTAL (IN.)	1.76	0.89	1.49	0.30	1.19	3.19	6.75	11.98	8.22	9.89	1.33	0.90	47.89	
	GREATEST 24-HOUR (IN.)	0.66	0.54	1.01	0.15	0.41	1.05	2.59	2.73	1.41	3.20	0.51	0.26	3.20	
	DATE OF OCCURRENCE	25-26	10-11	28	05	05	29-30	02-03	07-08	08-09	28-29	17-18	24	OCT 28-29	
	NUMBER OF DAYS WITH:														
	PRECIPITATION 0.01	5	4	5	5	10	11	14	21	18	11	12	9	125	
PRECIPITATION 0.10	3	4	2	1	5	8	8	14	12	7	5	3	72		
PRECIPITATION 1.00	0	0	1	0	0	0	0	2	5	2	4	0	14		
SNOWFALL	SNOW,ICE PELLETS,HAIL														
	TOTAL (IN.)														
	GREATEST 24-HOUR (IN.)														
	DATE OF OCCURRENCE														
	NUMBER OF DAYS WITH:														
SNOWFALL >= 1.0															

# NORMALS, MEANS, AND EXTREMES WEST PALM BEACH (KPBI)

**LATITUDE:** 26° 41'N      **LONGITUDE:** -80° 5'W      **ELEVATION (FT):** GRND: 19 BARO: 19      **TIME ZONE:** EASTERN (UTC -5)      **WBAN: 12844**

	ELEMENT	POR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
<b>TEMPERATURE °F</b>	NORMAL DAILY MAXIMUM	30	75.1	76.3	79.2	82.1	85.9	88.5	90.1	90.1	88.7	85.0	80.4	76.4	83.2
	MEAN DAILY MAXIMUM	71	75.0	75.5	79.3	82.2	86.0	88.2	90.3	90.5	88.4	84.9	79.9	76.4	83.1
	HIGHEST DAILY MAXIMUM	74	89	90	95	99	97	98	101	99	97	95	91	90	101
	YEAR OF OCCURRENCE		1942	1949	2011	1971	2008	2011	1942	2006	1937	1989	1992	2009	JUL 1942
	MEAN OF EXTREME MAXS.	71	83.6	85.6	88.4	90.5	92.0	93.8	94.3	94.3	92.7	90.4	86.5	84.2	89.7
	NORMAL DAILY MINIMUM	30	57.3	58.2	61.9	65.4	70.5	73.8	75.0	75.4	74.7	71.2	65.8	60.1	67.4
	MEAN DAILY MINIMUM	71	56.9	57.3	61.6	65.5	70.1	73.2	74.9	75.2	74.5	70.9	64.4	59.4	67.0
	LOWEST DAILY MINIMUM	74	27	32	30	43	51	61	66	65	66	46	36	28	27
	YEAR OF OCCURRENCE		1977	1989	1980	1987	1992	1984	1937	1957	1938	1968	1950	1989	JAN 1977
	MEAN OF EXTREME MINS.	71	38.7	42.4	46.3	53.5	61.5	68.6	70.8	71.0	70.3	59.4	49.4	41.5	56.1
	NORMAL DRY BULB	30	66.2	67.2	70.6	73.8	78.2	81.2	82.5	82.8	81.7	78.1	73.1	68.3	75.3
	MEAN DRY BULB	71	66.0	66.4	70.5	73.9	78.1	80.8	82.6	82.9	81.4	77.9	72.2	67.9	75.1
	MEAN WET BULB	28	59.7	61.1	63.0	65.5	70.4	74.5	75.7	76.1	75.2	71.2	66.3	62.0	68.4
	MEAN DEW POINT	28	57.8	59.1	61.0	63.1	68.5	73.2	74.4	74.8	74.0	69.6	64.5	60.0	66.7
	NORMAL NO. DAYS WITH: MAXIMUM >= 90	30	0.0	0.0	0.3	1.7	4.4	11.0	19.2	20.0	11.1	2.3	0.1	0.0	70.1
	MAXIMUM <= 32	30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MINIMUM <= 32	30	0.3	0.1	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.5	
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	0.0	0.0	
<b>H/C</b>	NORMAL HEATING DEG. DAYS	30	87	60	27	4	0	0	0	0	0	0	10	58	246
	NORMAL COOLING DEG. DAYS	30	109	121	195	266	408	485	544	549	499	408	255	160	3999
<b>RH</b>	NORMAL (PERCENT)	30	74	73	71	69	72	78	77	77	78	75	75	75	75
	HOURLY 01 LST	30	82	81	79	77	80	85	85	85	85	81	81	82	82
	HOURLY 07 LST	30	84	84	83	80	80	84	85	86	87	84	84	84	84
	HOURLY 13 LST	30	59	57	56	55	59	65	64	65	66	62	62	61	61
	HOURLY 19 LST	30	73	70	68	67	71	76	75	76	78	75	74	74	73
<b>S</b>	PERCENT POSSIBLE SUNSHINE														
<b>W/O</b>	MEAN NO. DAYS WITH: HEAVY FOG (VISIB <= 1/4 MI)	48	1.4	0.9	0.7	0.6	0.4	0.4	0.2	0.5	0.3	0.5	0.6	1.0	7.5
	THUNDERSTORMS	64	1.0	1.4	2.6	3.4	7.4	13.7	15.9	16.3	11.3	4.0	1.5	0.8	79.3
<b>CLOUDINESS</b>	MEAN: SUNRISE-SUNSET (OKTAS)														
	MIDNIGHT-MIDNIGHT (OKTAS)														
	MEAN NO. DAYS WITH: CLEAR	1	1.0	8.5	7.0		5.0	6.0						2.0	
	PARTLY CLOUDY	2	6.5	3.0	6.0		6.0	8.0						3.0	
CLOUDY	2	5.5	2.5	4.0		8.0	9.0								
<b>PR</b>	MEAN STATION PRESSURE (IN)	28	30.09	30.07	30.04	30.01	29.98	29.99	30.03	29.99	29.94	29.97	30.03	30.08	30.02
	MEAN SEA-LEVEL PRES. (IN)	28	30.12	30.10	30.06	30.03	30.00	30.01	30.05	30.01	29.95	29.99	30.05	30.11	30.04
<b>WINDS</b>	MEAN SPEED (MPH)	28	9.9	10.1	11.1	10.6	10.0	8.4	7.8	7.7	8.6	9.9	10.4	9.7	9.5
	PREVAIL. DIR. (TENS OF DEGS)	33	33	33	09	14	14	14	14	11	09	07	08	33	07
	MAXIMUM 2-MINUTE: SPEED (MPH)	18	37	48	37	46	40	45	43	41	64	83	39	38	83
	DIR. (TENS OF DEGS)		19	11	31	31	22	00	26	10	26	13	10	36	13
	YEAR OF OCCURRENCE		1994	1998	2011	2011	2003	1994	2009	2008	2004	2005	1994	1994	OCT 2005
	MAXIMUM 3-SECOND SPEED (MPH)	18	55	62	51	59	52	58	54	53	83	101	46	48	101
	DIR. (TENS OF DEGS)		28	23	30	27	27	34	26	36	27	13	11	36	13
YEAR OF OCCURRENCE		2006	2010	2011	2011	2008	2010	2009	2011	2004	2005	1994	1994	OCT 2005	
<b>PRECIPITATION</b>	NORMAL (IN)	30	3.75	2.55	3.68	3.57	5.39	7.58	5.97	6.65	8.10	5.46	5.55	3.14	61.39
	MAXIMUM MONTHLY (IN)	72	11.18	8.71	16.78	18.26	15.69	20.09	17.74	13.52	29.40	18.74	14.63	11.69	29.40
	YEAR OF OCCURRENCE		1998	1983	1982	1942	2009	2002	1941	1950	2004	1965	1982	1994	SEP 2004
	MINIMUM MONTHLY (IN)	72	0.11	0.14	0.33	0.04	0.39	1.07	1.22	1.73	1.77	0.56	0.23	0.06	0.04
	YEAR OF OCCURRENCE		2009	2009	1956	1967	1967	1952	1961	1987	1988	1997	1970	1968	APR 1967
	MAXIMUM IN 24 HOURS (IN)	72	9.12	5.28	8.99	15.23	7.04	9.21	5.83	6.72	10.92	9.58	7.67	8.22	15.23
	YEAR OF OCCURRENCE		1998	2002	2010	1942	1958	1945	1972	1988	2004	1965	1984	2006	APR 1942
	NORMAL NO. DAYS WITH: PRECIPITATION >= 0.01	30	8.8	7.9	8.1	6.8	10.8	14.6	14.9	16.7	16.7	12.2	9.8	8.9	136.2
	PRECIPITATION >= 1.00	30	0.9	0.7	1.0	1.0	1.7	2.6	1.4	1.7	2.5	1.4	1.5	0.9	17.3
<b>SNOWFALL</b>	NORMAL (IN)	30	0.*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	MAXIMUM MONTHLY (IN)	53	T	0.0	T	0.0	0.0	0.0	0.0	T	0.0	0.0	0.0	0.0	T
	YEAR OF OCCURRENCE		1977		1994					1993					MAR 1994
	MAXIMUM IN 24 HOURS (IN)	53	T	0.0	0.0	0.0	0.0	0.0	0.0	T	0.0	0.0	0.0	0.0	T
	YEAR OF OCCURRENCE		1977		1994					1993					MAR 1994
	MAXIMUM SNOW DEPTH (IN)	49	0	0	0	0	0	0	0	T	0	0	0	0	T
YEAR OF OCCURRENCE									1993					AUG 1993	
NORMAL NO. DAYS WITH: SNOWFALL >= 1.0	30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	

**PRECIPITATION (inches) 2011 WEST PALM BEACH (KPBI)**

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1982	1.29	2.31	16.78	7.67	6.90	10.37	2.57	5.72	6.03	4.83	14.63	1.52	80.62
1983	11.01	8.71	3.42	3.27	5.30	9.39	4.71	8.21	9.62	7.80	4.24	7.03	82.71
1984	1.36	4.49	5.06	5.99	8.44	5.84	7.34	6.39	8.69	1.67	14.39	0.13	69.79
1985	0.84	0.53	3.49	3.35	4.63	4.84	10.77	5.38	9.38	2.89	0.54	1.35	47.99
1986	6.34	1.58	5.48	0.33	1.59	9.82	10.20	4.88	4.08	8.11	6.80	10.10	69.31
1987	1.17	1.20	7.75	2.61	5.63	6.60	4.42	1.73	11.90	4.78	9.43	1.47	58.69
1988	3.38	3.04	5.51	3.65	6.94	10.95	9.01	11.38	1.77	3.54	3.86	1.88	64.91
1989	0.97	1.00	2.58	6.04	0.78	4.96	3.52	5.83	4.05	5.84	1.15	1.94	38.66
1990	1.19	1.39	1.91	2.82	6.74	6.67	10.17	6.60	11.70	3.45	1.23	1.94	55.81
1991	10.43	4.36	3.36	9.54	8.94	7.45	7.16	7.34	6.44	7.58	2.32	4.44	79.36
1992	1.69	3.26	2.61	2.64	1.59	16.08	2.90	6.12	6.99	2.82	12.56	1.85	61.11
1993	8.05	2.06	11.06	2.53	2.22	2.89	5.41	4.78	5.35	11.99	5.78	0.82	62.94
1994	5.85	3.22	2.62	7.57	4.50	10.89	5.22	10.33	11.41	4.42	8.17	11.69	85.89
1995	3.85	1.12	2.37	3.91	0.85	7.79	6.86	20.12	5.69	11.11	1.49	1.60	66.76
1996	1.54	0.67	5.06	0.78	6.52	7.56	2.77	4.24	7.53	6.54	2.06	1.55	46.82
1997	4.24	4.45	3.39	4.66	3.34	11.75	3.29	10.60	6.85	0.56	3.98	5.02	62.13
1998	11.18	6.23	4.10	1.12	1.94	1.68	8.81	5.73	13.36	1.36	7.64	3.90	67.05
1999	6.73	1.90	0.55	0.67	1.99	13.62	1.70	12.08	5.04	15.56	1.44	1.45	62.73
2000	1.15	0.59	2.00	4.09	0.40	3.06	6.43	3.03	7.23	6.68	5.28	2.33	42.27
2001	1.18	0.37	7.85	0.26	2.37	9.38	8.38	9.23	17.02	6.11	1.78	3.36	67.29
2002	0.48	8.08	1.71	6.88	0.51	20.09	5.97	5.46	2.73	2.52	3.15	2.59	60.17
2003	1.28	0.63	7.09	3.76	12.07	9.12	2.99	10.51	6.10	1.06	6.89	4.25	65.75
2004	2.00	2.70	1.54	2.76	2.89	2.89	5.13	12.35	29.40	1.58	1.12	0.76	65.12
2005	1.33	2.01	6.05	1.63	7.48	11.83	2.98	8.29	8.29	5.05	5.79	2.70	63.43
2006	1.62	2.79	1.78	4.69	3.13	4.27	4.91	7.14	6.07	1.95	4.75	11.06	54.16
2007	0.37	1.22	0.36	2.77	3.18	14.85	7.92	9.68	7.13	13.17	1.48	1.67	63.80
2008	0.81	5.95	7.40	4.59	2.42	4.94	8.97	11.91	5.32	4.25	0.89	1.76	59.21
2009	0.11	0.14	1.47	2.42	15.69	8.65	3.95	6.22	7.48	1.91	3.65	7.38	59.07
2010	2.03	4.39	10.83	6.25	1.28	6.07	4.60	6.97	6.15	2.14	1.38	1.30	53.39
2011	1.76	0.89	1.49	0.30	1.19	3.19	6.75	11.98	8.22	9.89	1.33	0.90	47.89
POR= 71 YRS	2.78	2.56	3.58	3.48	5.23	7.98	6.19	7.03	9.00	6.63	3.82	2.86	61.14

WBAN : 12844

**AVERAGE TEMPERATURE (°F) 2011 WEST PALM BEACH (KPBI)**

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1982	65.7	73.6	73.0	75.9	76.8	80.6	83.2	83.0	81.8	78.5	75.6	70.8	76.5
1983	64.8	66.1	66.5	72.2	77.6	80.6	84.0	84.3	81.6	76.9	70.0	68.3	74.4
1984	64.6	66.5	68.7	71.2	77.4	78.7	80.9	81.3	79.6	77.4	71.4	71.1	74.1
1985	60.7	67.5	71.3	73.1	77.3	82.3	81.0	82.9	80.3	80.4	75.7	65.0	74.8
1986	64.2	69.2	68.1	71.6	77.6	80.8	82.1	82.9	82.5	79.4	78.4	72.0	75.7
1987	64.5	68.7	70.3	69.0	77.8	82.3	83.2	84.9	82.7	76.5	73.8	68.4	75.2
1988	66.4	65.7	69.1	74.6	76.7	81.0	82.2	82.5	83.1	77.9	75.0	68.4	75.2
1989	71.3	68.5	72.2	74.8	79.5	81.9	83.0	83.6	83.1	77.6	74.3	62.5	76.0
1990	72.3	73.8	73.2	73.9	79.7	82.2	83.3	83.7	82.7	80.1	73.5	71.3	77.5
1991	71.0	68.2	72.6	77.0	80.2	81.9	83.2	83.6	82.0	78.8	71.5	70.2	76.7
1992	65.3	68.8	69.7	72.5	75.9	80.6	83.4	82.1	81.7	77.8	75.5	69.5	75.2
1993	71.5	66.3	69.0	71.1	77.7	81.6	82.9	83.0	82.3	79.0	74.4	65.6	75.4
1994	68.0	71.7	71.0	77.0	78.7	81.7	81.9	81.4	80.6	77.8	74.8	69.4	76.2
1995	64.2	65.0	72.0	75.7	80.7	80.8	82.2	82.7	82.4	80.5	70.7	65.7	75.2
1996	65.7	64.3	67.8	73.3	79.3	80.7	83.5	82.0	82.1	77.8	72.9	68.5	74.8
1997	66.4	72.2	74.6	74.2	78.7	81.0	83.0	82.2	81.4	77.9	71.8	67.3	75.9
1998	68.3	66.7	68.2	74.6	79.3	84.5	84.0	84.2	82.5	80.2	74.3	71.6	76.5
1999	68.4	66.7	68.4	76.3	77.3	80.0	83.1	83.3	81.8	78.6	73.3	68.2	75.5
2000	65.5	67.3	72.9	73.3	79.4	81.6	82.7	83.2	82.0	76.3	70.5	67.2	75.2
2001	60.7	72.6	71.7	74.9	77.6	81.3	81.9	82.8	80.2	78.1	73.2	71.4	75.5
2002	67.0	67.9	73.8	76.8	80.0	80.3	82.7	82.8	83.1	80.5	70.6	67.3	76.1
2003	59.9	70.7	77.0	73.9	80.7	81.9	83.5	82.7	82.2	79.5	75.1	65.5	76.1
2004	65.1	68.9	71.8	73.2	79.3	83.5	83.0	82.5	81.6	77.5	73.5	66.3	75.5
2005	67.0	66.7	69.0	71.3	78.0	80.4	84.3	84.9	82.0	78.1	73.8	66.3	75.2
2006	67.0	64.7	70.4	75.8	77.6	82.1	82.5	83.7	81.9	78.0	70.7	73.2	75.6
2007	70.7	67.0	72.6	74.1	78.1	80.8	83.2	83.9	81.7	80.6	72.8	72.0	76.5
2008	67.3	71.2	71.7	73.9	79.6	81.6	81.6	83.4	81.8	77.2	69.0	68.8	75.6
2009	64.5	65.9	70.6	74.5	79.0	82.1	82.9	84.6	82.4	80.1	73.3	70.8	75.9
2010	60.7	60.9	64.1	73.7	80.4	84.5	84.9	84.4	84.1	78.5	73.1	58.9	74.0
2011	65.5	70.8	72.9	80.2	81.3	84.2	85.7	84.5	82.6	77.5	74.1	72.0	77.6
POR= 71 YRS	66.0	66.4	70.5	73.9	78.1	80.8	82.6	82.9	81.4	77.9	72.2	67.9	75.1

**HEATING DEGREE DAYS (base 65°F) 2011 WEST PALM BEACH (KPBI)**

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1982-83	0	0	0	0	0	48	88	36	58	6	0	0	236
1983-84	0	0	0	0	14	82	85	60	46	4	0	0	291
1984-85	0	0	0	0	10	30	176	85	8	7	0	0	316
1985-86	0	0	0	0	6	102	93	28	67	0	0	0	296
1986-87	0	0	0	0	0	2	104	22	10	39	0	0	177
1987-88	0	0	0	0	8	42	62	68	39	0	0	0	219
1988-89	0	0	0	0	0	49	7	66	26	0	0	0	148
1989-90	0	0	0	8	2	146	14	7	0	1	0	0	178
1990-91	0	0	0	2	0	11	18	44	17	0	0	0	92
1991-92	0	0	0	0	23	10	73	21	22	4	0	0	153
1992-93	0	0	0	0	9	27	11	28	28	1	0	0	104
1993-94	0	0	0	0	11	63	46	14	20	0	0	0	154
1994-95	0	0	0	0	0	31	91	93	3	0	0	0	218
1995-96	0	0	0	0	16	115	105	105	62	6	0	0	409
1996-97	0	0	0	0	1	35	79	13	0	2	0	0	130
1997-98	0	0	0	0	8	75	36	56	55	0	0	0	230
1998-99	0	0	0	0	0	25	44	42	19	0	1	0	131
1999-00	0	0	0	0	0	56	76	35	0	1	0	0	168
2000-01	0	0	0	0	12	74	178	6	17	0	0	0	287
2001-02	0	0	0	0	0	23	82	31	7	0	0	0	143
2002-03	0	0	0	0	22	57	181	13	8	4	0	0	285
2003-04	0	0	0	0	8	76	61	36	6	5	0	0	192
2004-05	0	0	0	0	0	73	71	41	38	4	0	0	227
2005-06	0	0	0	6	10	59	66	89	18	0	0	0	248
2006-07	0	0	0	0	38	7	35	62	6	5	0	0	153
2007-08	0	0	0	0	5	14	49	21	9	6	0	0	104
2008-09	0	0	0	11	25	27	86	65	26	12	0	0	252
2009-10	0	0	0	3	11	36	205	157	82	0	0	0	494
2010-11	0	0	0	0	9	202	78	14	6	0	0	0	309
2011-	0	0	0	0	1	10							

WBAN : 12844

**COOLING DEGREE DAYS (base 65°F) 2011 WEST PALM BEACH (KPBI)**

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1982	116	249	263	336	371	476	568	566	510	425	324	234	4438
1983	87	73	110	229	396	474	597	604	506	378	172	191	3817
1984	81	110	165	198	391	417	500	514	444	391	208	226	3645
1985	49	159	210	256	389	523	502	562	464	485	335	107	4041
1986	76	151	170	206	397	481	536	561	534	455	410	224	4201
1987	95	134	180	166	402	522	574	626	539	363	278	152	4031
1988	114	94	173	293	370	488	539	548	550	408	304	162	4043
1989	208	171	257	302	454	515	563	585	553	406	288	75	4377
1990	247	259	262	276	460	520	574	591	542	474	263	211	4679
1991	211	140	263	366	478	514	571	582	518	436	223	180	4482
1992	88	136	175	238	345	476	575	537	507	404	332	172	3985
1993	218	71	158	192	400	506	564	564	527	439	298	91	4028
1994	145	210	214	365	435	508	533	515	473	401	305	175	4279
1995	74	102	228	330	499	483	542	558	528	490	196	141	4171
1996	136	93	155	263	451	478	579	534	519	405	246	153	4012
1997	128	223	305	285	431	490	564	541	500	408	218	154	4247
1998	145	108	163	298	449	594	596	602	533	481	285	237	4491
1999	154	95	131	343	390	458	569	574	512	429	256	160	4071
2000	99	106	250	259	454	508	556	572	514	357	183	150	4008
2001	50	225	231	305	396	496	534	557	462	415	253	227	4151
2002	153	117	285	364	473	464	554	558	548	487	195	136	4334
2003	30	180	388	281	492	513	581	554	520	456	315	100	4410
2004	72	157	226	260	448	563	564	550	507	395	261	119	4122
2005	140	96	168	198	409	470	606	624	514	418	280	106	4029
2006	129	86	193	330	398	521	550	585	515	412	217	267	4203
2007	208	125	252	283	413	481	574	593	506	492	246	239	4412
2008	127	206	225	279	463	504	523	576	509	395	150	152	4109
2009	77	96	207	303	442	518	562	616	530	478	267	222	4318
2010	79	48	60	266	486	590	626	609	579	425	258	18	4044
2011	101	180	259	461	511	581	650	612	537	397	281	233	4803

**SNOWFALL (inches) 2011 WEST PALM BEACH (KPBI)**

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1976-77	0.0	0.0	0.0	0.0	0.0	0.0	T	0.0	0.0	0.0	0.0	0.0	T
1977-78	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1978-79	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1979-80	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1980-81	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1981-82	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1982-83	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1983-84	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1984-85	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1985-86	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1986-87	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1987-88	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1988-89	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1989-90	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1990-91	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1991-92	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1992-93	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1993-94	0.0	T	0.0	0.0	0.0	0.0	0.0	0.0	T	0.0	0.0	0.0	T
1994-95	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1995-96	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1996-97										0.0	0.0	0.0	
1997-98	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1998-99	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1999-00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2000-01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2001-02													
2002-03													
2003-04													
2004-05													
2005-													
POR= 52 YRS	0.0	T	0.0	0.0	0.0	0.0	T	0.0	T	0.0	0.0	0.0	T

WBAN : 12844

**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 EIGHTS(OKTAS) FOR REPORTING THE AMOUNT OF SKY COVER. STATION HISTORY STOPPED WITH THE 2009 ANNUAL. IF YOU NEED HISTORY GO TO "MULTI-NETWORK MEDADATA SYSTEM", URL IS: <a href="https://mi3.ncdc.noaa.gov/mi3qry/login.cfm">https://mi3.ncdc.noaa.gov/mi3qry/login.cfm</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 the "Summary of the Day First Order Station" and "Cooperative Summary of the Day" archives.</p>
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# 2011

## WEST PALM BEACH

### FLORIDA (KPBI)

West Palm Beach and Palm Beach, both located on the coastal sand ridge of southeastern Florida, are separated by Lake Worth, a portion of the Inland Waterway. The entire coastal ridge is only about 5 miles wide and in early times the Everglades reached to its western edge. Now most of the swampland has been drained and is devoted to agriculture, the peat-like muck soil being very fertile when fortified with certain lacking minerals. The Atlantic Ocean forms the eastern edge of Palm Beach, and the Gulf Stream flows northward about 2 miles offshore, its nearest approach to the Florida coast.

Because of its southerly location and marine influences, the Palm Beach area has a notably equable climate. Cold continental air must either travel over water or flow down the Florida Peninsula to reach the area, and in either case its cold is appreciably modified. Actually, the coldest weather, with infrequent frosts, is experienced the second or third night after the arrival of the cold air, due to the loss of heat through radiation cooling. The frequency of temperatures as low as the freezing mark is about one per three years at the National Weather Service Office, but in the farmlands farther from the coast the frequency of light freezes is much higher.

Summer temperatures are tempered by the ocean breeze, and by the frequent formation of cumulus clouds, which shade the land somewhat without completely obscuring the sun. Temperatures of 89 degrees or higher have occurred in all months of the year, but the 100 degree mark has rarely occurred. August is the warmest month and has an average maximum temperature of about 90 degrees. The occurrence of 90 degree temperatures in August is so common that such can be expected on more than two-thirds of the days. However, temperatures as high as 100 degrees rarely occur.

The moist, unstable air in this area results in frequent showers, usually of short duration. Thunderstorms are frequent during the summer, occurring every other day. Rainfall is heaviest during the summer and fall, the fall rainfall occurring from occasional heavy rains accompanying tropical disturbances. High winds, associated with hurricanes, have been estimated at about 140 mph in the city.

Flying weather is usually very good in this area, with instrument weather occurring only rarely. Heavy fog occurs on an average of only one morning a month in the winter and spring, and almost never in the summer and fall.

# Station History

WEST PALM BEACH, FL

NAME	Begin Date	End Date	Latitude	Longitude	Elevation Feet	Relocation	Platform
WEST PALM BEACH INTL AP	1977-03-01	1982-01-01	26° 40'	-80° 7'	15		COOP,UPPERAIR,WXSVC
WEST PALM BEACH MORRISON FIELD	1941-01-01	1948-07-01	26° 40'	-80° 6'			AIRWAYS
WEST PALM BEACH MORRISON FIELD	1938-07-01	1940-02-28	26° 40'	-80° 6'			AIRWAYS
WEST PALM BEACH INTL AP	1977-01-01	1977-03-01	26° 40'	-80° 7'	15		COOP,WXSVC
WEST PALM BEACH MORRISON FIELD	1948-07-01	1953-01-01	26° 40'	-80° 6'	20		AIRWAYS,COOP
WEST PALM BEACH INTL AP	1993-04-01	2002-01-08	26° 41'	-80° 5'	18		ASOS,COOP,UPPERAIR
WEST PALM BEACH INTL AP	2002-01-08	2004-10-01	26° 41'	-80° 5'	19		ASOS,COOP,UPPERAIR
WEST PALM BEACH MORRISON FIELD	1953-01-01	1953-04-27	26° 40'	-80° 6'	30		AIRWAYS,COOP
WEST PALM BEACH INTL AP	1953-04-27	1969-01-01	26° 40'	-80° 6'	30		AIRWAYS,COOP
WEST PALM BEACH INTL AP	2004-10-01	Present	26° 41'	-80° 5'	19		ASOS,COOP,UPPERAIR
WEST PALM BEACH INTL AP	1969-01-01	1977-01-01	26° 40'	-80° 6'	30		COOP,WXSVC
WEST PALM BEACH INTL AP	1982-01-01	1993-04-01	26° 40'	-80° 7'	18		COOP,UPPERAIR,WXSVC

# Element History

Element	Begin Date	End Date	Frequency	Time Of Observation	Equipment *	Equipment * Modifications	Equipment Exposure
TEMP	1938-07-01	1977-03-01	DAILY	2400			
PRECIP	1977-03-01	1989-05-01	HOURLY	2400	UNIV	RCRD	
PRECIP	1989-05-01	1993-04-01	HOURLY	2400	UNIV	RCRD	
PRECIP	2004-10-01	2010-11-06	DAILY	2400	PCPN1		
TEMP	2010-11-06	Present	DAILY	0700	HYGR		
PRECIP	2010-11-06	Present	DAILY	0700	PCPN1		
TEMP	2010-11-06	Present	DAILY	2400	HYGR		
TEMP	2002-01-08	2002-01-09	DAILY	2400	HYGR		
PRECIP	1993-04-01	2002-01-08	HOURLY		TB	RCRD	
TEMP	1993-04-01	2002-01-08	DAILY	2400	HYGR		
PRECIP	1989-05-01	1993-04-01	DAILY	2400	UNIV	RCRD	
PRECIP	2002-01-09	2004-10-01	HOURLY		TB	RCRD	
PRECIP	2010-11-06	Present	DAILY	2400	PCPN1		
TEMP	2010-11-06	Present	DAILY	1900	HYGR		
PRECIP	2010-11-06	Present	HOURLY	0700	TB	RCRD	
PRECIP	2010-11-06	Present	HOURLY	2400	TB	RCRD	
PRECIP	1977-03-01	1989-05-01	DAILY	2400			
TEMP	1977-03-01	1989-05-01	DAILY	2400			
TEMP	1989-05-01	1993-04-01	DAILY	2400	HYGR		
PRECIP	2010-11-06	Present	DAILY	1900	PCPN1		
PRECIP	1993-04-01	2002-01-08	DAILY	2400	TB	RCRD	
PRECIP	2004-10-01	2010-11-06	HOURLY	2400	TB	RCRD	
TEMP	2004-10-01	2010-11-06	DAILY	2400	HYGR		
PRECIP	1938-07-01	1977-03-01	DAILY	2400	UNIV	RCRD	ROOF
PRECIP	2002-01-08	2002-01-09	HOURLY		TB	RCRD	
TEMP	2002-01-09	2004-10-01	DAILY	2400	HYGR		
PRECIP	2010-11-06	Present	HOURLY	1700	TB	RCRD	
PRECIP	2002-01-08	2002-01-09	DAILY	2400			
PRECIP	2002-01-09	2004-10-01	DAILY	2400	PCPN1		

\* 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>

INQUIRES/COMMENTS CALL: (828) 271-4800, option 2

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NOAA/National Climatic Data Center

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