

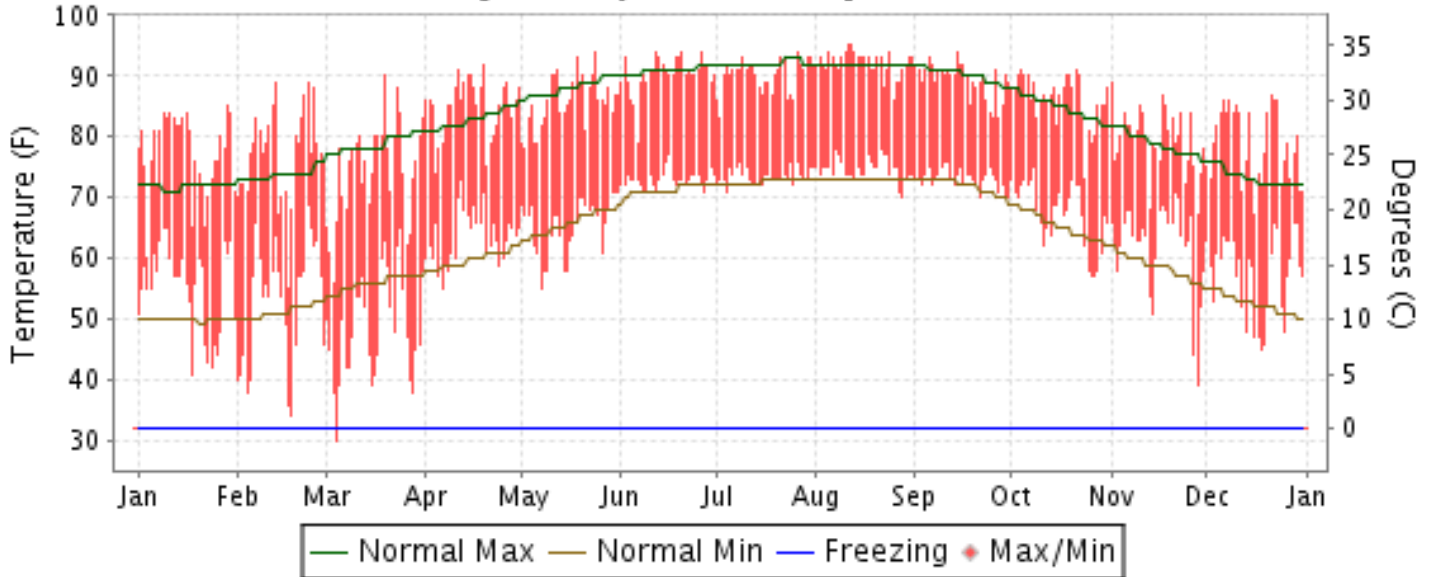


# 2013 LOCAL CLIMATOLOGICAL DATA ANNUAL SUMMARY WITH COMPARATIVE DATA

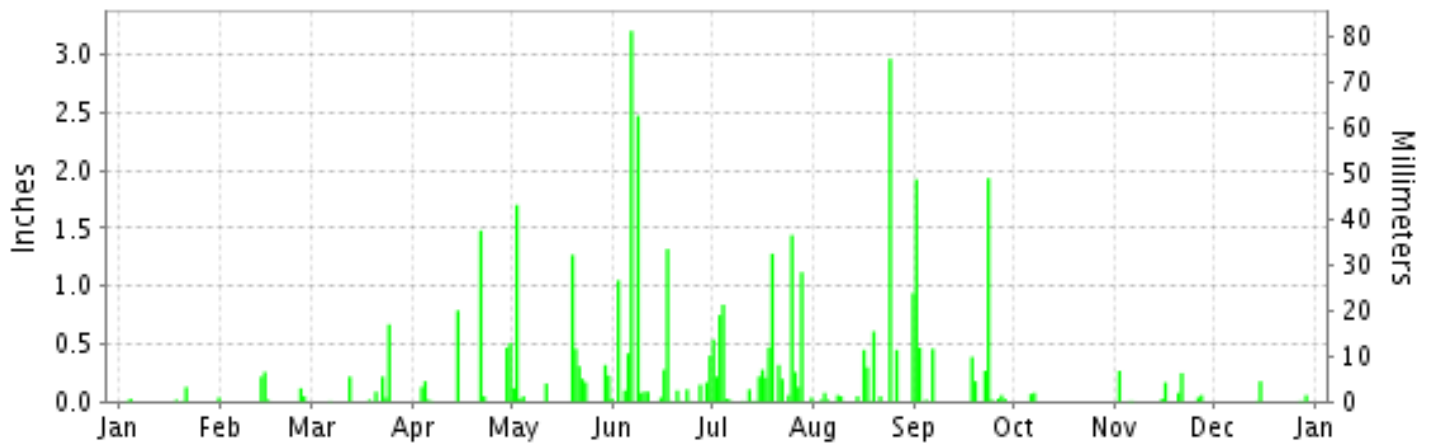
ISSN 0198-1277

## ORLANDO, FLORIDA (KMCO)

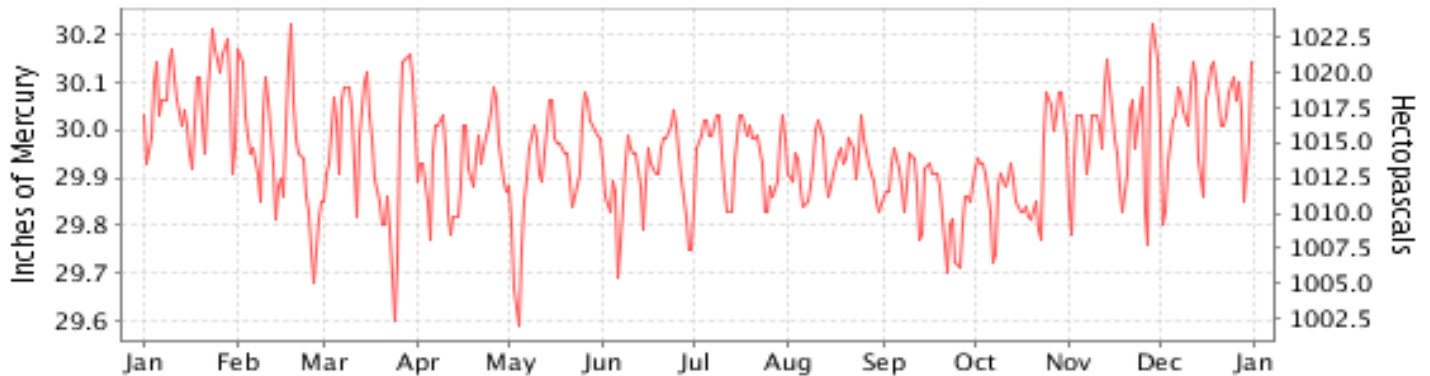
### Daily Max/Min Temperature



### 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 2013

## ORLANDO (KMCO)

LATITUDE:  
28° 26'N

LONGITUDE:  
81° 19'W

ELEVATION (FT):  
GRND: 90 BARO: 96

TIME ZONE:  
EASTERN (UTC -5)

WBAN: 12815

ELEMENT		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	
TEMPERATURE °F	MEAN DAILY MAXIMUM	77.3	77.3	74.5	84.9	85.8	90.3	90.1	92.1	89.3	86.3	79.5	78.6	83.8	
	HIGHEST DAILY MAXIMUM	85	89	90	92	94	94	94	95	94	91	89	87	95	
	DATE OF OCCURRENCE	29	23+	19	19+	24	26+	26	12+	14	21+	01	21+	AUG 12+	
	MEAN DAILY MINIMUM	55.1	53.0	48.6	63.6	65.4	73.0	73.5	74.8	73.1	67.4	62.0	57.4	63.9	
	LOWEST DAILY MINIMUM	41	34	30	55	55	71	71	70	70	57	39	45	30	
	DATE OF OCCURRENCE	18	18	04	06	07	27+	04	28	30+	27+	28	18	MAR 04	
	AVERAGE DRY BULB	66.2	65.2	61.6	74.2	75.6	81.7	81.8	83.4	81.2	76.8	70.8	68.0	73.9	
	MEAN WET BULB	60.8	58.1	53.0	67.2	68.0	75.2	75.3	76.4	74.6	69.5	64.9	62.5	67.1	
	MEAN DEW POINT	57.2	52.6	44.5	63.5	64.0	73.2	73.6	74.1	72.3	66.0	61.8	59.0	63.5	
	NUMBER OF DAYS WITH:														
	MAXIMUM >= 90°	0	0	1	4	7	22	21	27	18	8	0	0	108	
MAXIMUM <= 32°	0	0	0	0	0	0	0	0	0	0	0	0	0		
MINIMUM <= 32°	0	0	1	0	0	0	0	0	0	0	0	0	1		
MINIMUM <= 0°	0	0	0	0	0	0	0	0	0	0	0	0	0		
H/C	HEATING DEGREE DAYS	57	90	149	0	0	0	0	0	0	0	23	34	353	
	COOLING DEGREE DAYS	101	99	51	285	336	509	529	581	494	375	201	133	3694	
RH	MEAN (PERCENT)	77	69	59	74	72	82	83	79	80	75	77	77	75	
	HOUR 01 LST	92	84	78	90	89	94	95	93	92	90	87	90	90	
	HOUR 07 LST	91	86	71	83	76	84	86	85	85	85	86	90	84	
	HOUR 13 LST	55	49	37	52	51	63	67	60	61	52	59	55	55	
	HOUR 19 LST	76	65	57	77	73	86	86	81	84	77	79	76	76	
W/O	NUMBER OF DAYS WITH:														
	HEAVY FOG(VISBY <= 1/4 MI)	5	1	1	0	1	0	0	1	1	0	1	3	14	
	THUNDERSTORMS	0	0	3	6	9	17	16	17	10	2	0	0	80	
PR	MEAN STATION PRESS. (IN.)	30.06	29.95	29.96	29.93	29.93	29.90	29.95	29.92	29.85	29.91	29.99	30.03	29.95	
	MEAN SEA-LEVEL PRESS. (IN.)	30.18	30.07	30.09	30.05	30.04	30.01	30.07	30.03	29.97	30.02	30.10	30.14	30.06	
WINDS	RESULTANT SPEED (MPH)	2.2	1.4	2.7	3.1	2.1	2.9	3.0	2.6	2.4	3.2	5.8	2.0	1.5	
	RES. DIR. (TENS OF DEGS.)	05	25	29	09	08	16	13	11	06	02	03	05	07	
	MEAN SPEED (MPH)	6.7	7.5	8.3	8.2	7.3	6.4	6.2	5.5	6.1	6.3	9.4	7.1	7.1	
	PREVAIL.DIR.(TENS OF DEGS.)	02	35	31	08	08	10	12	11	06	35	36	35	36	
	MAXIMUM 2-MINUTE WIND														
	SPEED (MPH)	25	29	56	32	37	30	35	32	32	26	31	23	56	
	DIR. (TENS OF DEGS.)	16	29	28	19	23	31	25	13	05	11	31	32	28	
	DATE OF OCCURRENCE	30	16	24	14	19	08	21	19	06	06	27	24	MAR 24	
	MAXIMUM 3-SECOND WIND:														
SPEED (MPH)	33	38	86	40	46	38	45	44	40	33	45	31	86		
DIR. (TENS OF DEGS.)	17	26	30	19	23	30	25	27	20	35	29	31	30		
DATE OF OCCURRENCE	30	16	24	14	19	08	21	31	02	14	27	31	MAR 24		
PRECIPITATION	WATER EQUIVALENT:														
	TOTAL (IN.)	0.24	0.67	1.27	3.64	5.05	10.10	8.57	6.05	5.78	0.15	0.92	0.27	42.71	
	GREATEST 24-HOUR (IN.)	0.13	0.39	0.67	1.49	1.70	3.44	1.49	2.96	2.39	0.09	0.27	0.19	3.44	
	DATE OF OCCURRENCE	21	13-14	24	21-22	02	05-06	25-26	24	01-02	06-07	02	14-15	JUN 05-06	
	NUMBER OF DAYS WITH:														
PRECIPITATION 0.01	6	5	7	9	13	19	23	14	12	2	9	5	124		
PRECIPITATION 0.10	1	3	3	6	10	12	16	6	7	0	3	1	68		
PRECIPITATION 1.00	0	0	0	1	2	4	3	1	2	0	0	0	13		
SNOWFALL	SNOW,ICE PELLETS,HAIL	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	
	TOTAL (IN.)	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	
	GREATEST 24-HOUR (IN.)														
	DATE OF OCCURRENCE	0	0	0	0	0	0	0	0	0	0	0	0	0	
	MAXIMUM SNOW DEPTH (IN.)														
DATE OF OCCURRENCE															
NUMBER OF DAYS WITH:															
SNOWFALL >= 1.0	0	0	0	0	0	0	0	0	0	0	0	0	0		

# NORMALS, MEANS, AND EXTREMES ORLANDO (KMCO)

**LATITUDE:** 28° 26'N      **LONGITUDE:** 81° 19'W      **ELEVATION (FT):** GRND: 90 BARO: 96      **TIME ZONE:** EASTERN (UTC -5)      **WBAN: 12815**

	ELEMENT	POR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
<b>TEMPERATURE °F</b>	NORMAL DAILY MAXIMUM	30	71.2	73.9	78.0	82.5	88.1	90.7	91.8	91.6	89.5	84.6	78.4	72.8	82.8
	MEAN DAILY MAXIMUM	57	70.6	73.1	77.5	82.6	87.6	90.1	91.2	91.0	89.0	83.7	77.7	72.4	82.2
	HIGHEST DAILY MAXIMUM	71	87	90	92	96	102	100	101	100	98	95	89	90	102
	YEAR OF OCCURRENCE		1991	1962	2011	1968	1945	1998	1998	1980	1988	2009	2013	1978	MAY 1945
	MEAN OF EXTREME MAXS.	61	82.7	84.5	87.7	90.5	94.0	95.4	95.6	95.2	93.5	90.7	85.9	83.0	89.9
	NORMAL DAILY MINIMUM	30	49.2	52.1	55.8	60.0	66.4	72.0	73.6	74.1	72.7	66.4	58.6	52.4	62.8
	MEAN DAILY MINIMUM	57	49.0	51.4	55.7	60.5	66.4	71.6	73.3	73.8	72.5	65.9	57.9	51.8	62.5
	LOWEST DAILY MINIMUM	71	19	26	25	38	48	53	64	64	56	43	29	20	19
	YEAR OF OCCURRENCE		1985	1996	1980	1987	1992	1984	1981	1957	1956	2008	1950	1983	JAN 1985
	MEAN OF EXTREME MINS.	61	31.9	35.6	40.3	48.6	58.1	66.5	69.7	70.3	67.2	52.6	43.0	35.1	51.6
	NORMAL DRY BULB	30	60.2	63.0	66.9	71.2	77.3	81.4	82.7	82.8	81.1	75.5	68.5	62.6	72.8
	MEAN DRY BULB	61	60.3	62.3	66.7	71.7	77.2	81.1	82.4	82.5	80.9	75.0	67.9	62.3	72.5
	MEAN WET BULB	30	53.9	55.5	58.3	62.1	67.8	72.9	74.6	75.1	73.6	67.7	61.6	56.5	65.0
	MEAN DEW POINT	30	52.2	53.7	56.4	60.0	66.1	71.9	73.6	74.1	72.7	66.6	60.3	54.8	63.5
	NORMAL NO. DAYS WITH: MAXIMUM >= 90	30	0.0	0.0	0.2	2.0	11.3	18.2	23.1	23.3	15.5	3.1	0.1	0.0	96.8
	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	1.4	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	2.3	
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	193	115	59	12	1	0	0	0	0	5	42	144	571
	NORMAL COOLING DEG. DAYS	30	45	59	118	199	380	490	549	553	483	331	147	70	3424
<b>RH</b>	NORMAL (PERCENT)	30	75	72	71	69	72	77	79	80	80	77	77	77	76
	HOURLY 01 LST	30	86	85	85	85	87	90	91	92	92	89	89	88	88
	HOURLY 07 LST	30	89	89	90	88	89	91	92	93	93	91	91	90	91
	HOURLY 13 LST	30	57	53	51	48	50	58	59	60	61	57	57	59	56
	HOURLY 19 LST	30	70	64	62	60	64	64	73	76	78	79	76	75	74
<b>S</b>	PERCENT POSSIBLE SUNSHINE														
<b>W/O</b>	MEAN NO. DAYS WITH: HEAVY FOG(VISBY <= 1/4 MI)	46	3.2	2.6	1.5	1.0	1.0	0.6	0.4	0.6	0.7	0.9	1.6	3.2	17.3
	THUNDERSTORMS	57	1.1	1.6	3.0	3.2	7.1	14.7	17.9	17.7	9.7	2.4	0.9	0.9	80.2
<b>CLOUDINESS</b>	MEAN: SUNRISE-SUNSET (OKTAS)	48	4.6	4.6	4.5	4.2	4.3	5.2	5.1	5.1	5.1	4.4	4.2	4.5	4.7
	MIDNIGHT-MIDNIGHT (OKTAS)	22	4.4	4.3	4.2	3.6	4.1	4.9	4.6	4.6	4.5	3.9	4.1	4.3	4.3
	MEAN NO. DAYS WITH: CLEAR	48	8.9	8.6	9.1	10.0	8.7	4.1	3.3	3.2	3.7	9.4	10.1	9.6	88.7
	PARTLY CLOUDY	48	10.2	8.5	10.5	11.4	13.6	14.1	16.7	16.7	14.6	11.1	10.2	9.2	146.8
	CLOUDY	48	11.9	11.1	11.5	8.6	8.7	11.8	11.1	11.1	11.7	10.6	9.7	12.2	130.0
<b>PR</b>	MEAN STATION PRESSURE(IN)	30	30.03	30.00	29.96	29.92	29.90	29.90	29.94	29.91	29.87	29.91	29.97	30.02	29.94
	MEAN SEA-LEVEL PRES. (IN)	30	30.14	30.11	30.07	30.03	30.01	30.01	30.06	30.02	29.98	30.02	30.09	30.13	30.06
<b>WINDS</b>	MEAN SPEED (MPH)	30	8.2	8.5	9.1	8.7	8.1	7.0	6.4	6.4	7.0	7.8	8.1	7.7	7.8
	PREVAIL.DIR(TENS OF DEGS)	48	36	36	10	11	10	10	19	19	06	36	36	36	36
	MAXIMUM 2-MINUTE: SPEED (MPH)	17	36	38	56	43	51	49	49	79	61	41	37	35	79
	DIR. (TENS OF DEGS)		27	18	28	29	35	35	28	12	06	01	23	27	12
	YEAR OF OCCURRENCE		2008	1998	2013	2010	1997	2009	2007	2004	2004	1999	2008	2010	AUG 2004
	MAXIMUM 3-SECOND SPEED (MPH)	17	49	47	86	54	70	70	61	105	78	48	48	48	105
	DIR. (TENS OF DEGS)		25	20	30	30	34	16	27	12	04	36	23	20	12
YEAR OF OCCURRENCE		2008	1998	2013	2010	1997	2011	2007	2004	2004	2005	2008	2002	AUG 2004	
<b>PRECIPITATION</b>	NORMAL (IN)	30	2.35	2.38	3.77	2.68	3.45	7.58	7.27	7.13	6.06	3.31	2.17	2.58	50.73
	MAXIMUM MONTHLY (IN)	71	7.23	8.74	11.38	9.10	14.56	18.28	19.57	16.11	15.87	14.51	10.29	12.63	19.57
	YEAR OF OCCURRENCE		1986	1998	1987	1992	2009	1968	1960	1972	1945	1950	1987	1997	JUL 1960
	MINIMUM MONTHLY (IN)	71	0.13	0.10	0.02	0.14	0.43	1.58	2.60	2.83	0.43	0.00	0.03	T	0.00
	YEAR OF OCCURRENCE		2012	1944	2006	1977	1961	1998	1992	2001	1972	2010	1967	1944	OCT 2010
	MAXIMUM IN 24 HOURS (IN)	71	4.19	4.38	5.03	5.65	3.95	8.40	8.19	5.29	9.67	7.74	5.87	3.61	9.67
	YEAR OF OCCURRENCE		1986	1970	1960	1992	2009	1945	1960	1949	1945	1950	1988	1969	SEP 1945
	NORMAL NO. DAYS WITH: PRECIPITATION >= 0.01	30	6.6	6.8	7.4	6.2	7.5	15.6	16.3	16.6	13.2	8.0	6.3	6.6	117.1
	PRECIPITATION >= 1.00	30	0.6	0.6	1.3	0.6	1.1	2.3	2.1	2.2	1.8	1.0	0.6	0.8	15.0
<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	0.0
	MAXIMUM MONTHLY (IN)	41	T	0.0	T	T	T	T	T	T	0.0	0.0	0.0	0.0	T
	YEAR OF OCCURRENCE		2010		1992	2012	2010	2011	2012	1989					JUL 2012
	MAXIMUM IN 24 HOURS (IN)	41	T	0.0	T	T	T	T	T	T	0.0	0.0	0.0	0.0	T
	YEAR OF OCCURRENCE		2010		1992	2012	2010	2011	2012	1989					JUL 2012
	MAXIMUM SNOW DEPTH (IN)	56	0	0	0	0	0	0	0	0	0	0	0	0	0
YEAR OF OCCURRENCE															
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) 2013 ORLANDO (KMCO)**

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1984	2.01	2.73	1.85	6.21	3.20	5.32	6.19	7.89	6.19	0.56	2.10	0.19	44.44
1985	0.91	1.27	4.59	1.69	3.00	4.54	7.28	11.63	5.45	2.55	0.82	3.46	47.19
1986	7.23	1.84	2.63	0.49	0.88	9.50	5.85	5.99	4.50	5.63	1.69	3.60	49.83
1987	1.27	1.74	11.38	0.59	1.40	3.54	7.95	6.07	8.64	3.41	10.29	0.51	56.79
1988	3.12	1.38	6.07	2.02	2.82	4.17	9.44	7.94	5.67	1.42	7.44	1.00	52.49
1989	3.80	0.15	1.35	2.28	2.38	6.79	4.74	6.20	10.29	1.75	1.44	4.49	45.66
1990	0.23	4.13	1.92	1.73	0.55	6.22	6.68	3.78	2.46	2.10	1.05	0.83	31.68
1991	2.37	0.98	6.66	7.72	9.48	5.98	10.78	7.13	4.53	4.76	0.27	0.24	60.90
1992	1.35	2.42	3.67	9.10	1.19	8.68	2.60	8.03	7.13	5.17	2.74	0.88	52.96
1993	4.89	1.48	6.26	1.78	2.32	4.47	6.49	5.95	5.35	4.61	0.17	0.76	44.53
1994	4.00	3.58	1.21	3.03	2.87	10.28	13.27	6.23	7.84	5.18	7.32	3.04	67.85
1995	1.50	1.13	2.12	0.81	4.24	8.23	5.10	9.48	3.59	4.35	1.74	0.76	43.05
1996	5.39	1.52	9.87	0.68	5.12	6.51	4.06	11.33	6.04	3.28	.72	2.14	56.66
1997	1.13	2.44	3.46	4.02	3.17	8.20	11.51	7.99	2.59	4.22	3.15	12.63	64.51
1998	1.99	8.74	5.26	0.52	3.17	1.58	8.61	5.59	5.36	0.64	1.67	0.62	43.75
1999	2.99	0.36	0.56	2.40	5.43	13.84	5.14	4.50	6.40	8.40	2.13	2.65	54.80
2000	1.23	0.36	0.45	2.22	1.00	6.19	4.07	4.48	6.37	1.33	1.10	1.58	30.38
2001	0.66	0.22	3.72	2.09	5.84	7.65	18.27	2.83	10.47	1.01	1.68	0.48	54.92
2002	1.10	3.48	0.52	1.20	2.47	13.01	10.21	10.97	4.74	4.98	2.32	11.39	66.39
2003	0.80	1.58	5.28	4.32	2.43	6.56	8.26	11.90	5.75	1.82	2.42	1.56	52.68
2004	3.27	4.53	0.72	2.41	1.91	8.76	4.56	14.88	13.02	1.24	2.18	1.76	59.24
2005	3.33	1.29	6.38	1.43	4.57	17.39	3.95	7.66	1.67	10.20	0.60	2.04	60.51
2006	0.43	2.36	0.02	1.05	3.36	6.61	7.01	4.33	4.09	1.95	1.54	3.60	36.35
2007	1.73	0.91	0.52	2.05	0.54	5.91	6.52	4.47	8.96	5.41	0.42	1.05	38.49
2008	4.10	1.65	5.15	3.21	3.48	9.73	7.35	10.71	4.02	2.65	1.09	0.66	53.80
2009	2.08	0.62	0.48	1.06	14.56	8.05	6.05	4.74	4.58	2.85	1.02	5.39	51.48
2010	3.53	4.35	8.87	4.73	3.00	3.23	4.26	5.62	5.67	0.00	1.68	0.78	45.72
2011	5.92	0.25	5.24	0.65	2.10	7.34	10.62	9.11	5.85	8.87	0.13	0.80	56.88
2012	0.13	3.14	0.81	1.67	3.62	9.64	3.27	6.33	8.75	2.22	0.23	1.28	41.09
2013	0.24	0.67	1.27	3.64	5.05	10.10	8.57	6.05	5.78	0.15	0.92	0.27	42.71
POR= 61 YRS	2.26	2.61	3.46	2.30	3.51	7.54	7.30	6.68	5.91	3.15	1.87	2.19	48.78

WBAN : 12815

**AVERAGE TEMPERATURE (°F) 2013 ORLANDO (KMCO)**

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1984	57.8	61.2	64.7	69.2	75.6	78.4	80.7	81.5	78.9	75.4	65.8	66.0	71.3
1985	54.7	62.2	68.4	70.7	77.2	82.4	82.1	82.3	79.8	79.4	73.0	58.8	72.6
1986	59.8	64.3	65.4	69.3	76.7	81.7	82.3	83.3	81.7	77.5	75.8	67.3	73.8
1987	58.8	62.7	65.9	66.8	76.8	83.1	83.5	85.0	82.7	72.2	69.0	64.2	72.6
1988	58.5	60.4	65.5	72.0	75.5	80.3	80.7	82.8	83.9	73.7	70.5	62.4	72.2
1989	66.9	64.5	69.7	71.9	77.9	81.9	83.2	83.3	82.2	75.3	69.0	55.5	73.4
1990	65.8	69.1	69.3	71.5	79.4	81.9	82.8	83.5	82.0	77.1	69.3	66.3	74.8
1991	66.3	64.2	67.7	75.3	79.5	81.1	82.6	83.0	81.7	75.3	65.8	65.5	74.0
1992	59.7	64.8	66.4	69.9	74.9	81.2	84.5	82.3	81.6	73.4	70.4	63.5	72.7
1993	66.3	60.6	64.8	68.3	75.5	81.9	83.9	83.2	81.2	75.1	68.3	58.9	72.3
1994	60.9	66.4	68.2	74.1	77.4	81.3	81.5	81.0	79.2	76.1	71.9	64.9	73.6
1995	58.8	61.1	68.2	72.6	80.2	79.9	82.4	83.0	82.1	77.3	65.6	61.0	72.7
1996	59.1	61.3	62.9	71.6	80.2	81.8	82.9	81.6	80.6	73.8	67.5	62.3	72.1
1997	60.9	67.7	72.3	69.8	76.1	79.9	82.4	82.6	80.5	73.9	66.1	61.4	72.8
1998	62.4	61.7	63.8	71.3	77.7	85.0	84.0	83.5	80.9	77.4	71.2	67.3	73.9
1999	63.9	64.0	64.6	74.2	75.5	80.1	82.8	83.4	80.5	75.1	68.4	61.5	72.8
2000	60.6	62.6	69.9	70.4	77.9	81.3	82.6	82.3	81.4	72.9	65.7	59.8	72.3
2001	56.2	67.2	66.8	71.7	76.2	80.6	81.4	82.3	78.7	73.8	69.4	66.4	72.6
2002	61.4	61.6	69.5	74.5	78.1	79.6	81.7	81.3	82.2	78.2	65.7	59.8	72.8
2003	54.0	63.9	71.8	71.2	79.8	80.6	82.4	81.5	80.3	75.8	70.8	59.8	72.7
2004	59.5	62.6	67.5	69.2	77.2	82.7	82.8	82.7	81.4	75.9	70.1	61.0	72.7
2005	62.1	63.7	64.9	68.8	76.1	80.3	84.7	85.1	82.1	75.1	69.2	60.2	72.7
2006	63.2	60.9	67.4	74.5	77.0	81.2	82.7	83.2	81.1	74.2	66.0	67.6	73.3
2007	64.1	60.4	68.3	70.4	76.1	80.7	82.9	84.4	81.9	78.5	67.7	67.5	73.6
2008	61.6	66.2	67.2	71.0	78.1	81.1	81.4	81.6	80.9	73.8	63.8	64.5	72.6
2009	59.2	60.5	67.6	71.6	77.8	82.1	82.0	83.3	81.5	77.5	69.4	63.8	73.0
2010	54.4	54.7	60.9	71.2	79.0	83.5	84.1	83.9	81.8	74.3	67.7	52.0	70.6
2011	59.4	66.2	69.0	75.7	78.3	82.7	83.4	83.8	81.3	72.2	68.7	65.9	73.9
2012	60.2	67.0	71.7	72.9	78.5	79.7	83.0	82.5	80.9	75.4	64.7	65.0	73.5
2013	66.2	65.2	61.6	74.2	75.6	81.7	81.8	83.4	81.2	76.8	70.8	68.0	73.9
POR= 61 YRS	60.3	62.3	66.7	71.7	77.2	81.1	82.4	82.5	80.9	75.0	67.9	62.4	72.5

**HEATING DEGREE DAYS (base 65°F) 2013 ORLANDO (KMCO)**

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1984-85	0	0	0	0	68	71	340	146	22	12	0	0	659
1985-86	0	0	0	0	14	228	180	82	105	4	0	0	613
1986-87	0	0	0	0	0	42	216	97	48	66	0	0	469
1987-88	0	0	0	0	39	97	221	169	71	7	0	0	604
1988-89	0	0	0	0	11	135	32	119	59	4	0	0	360
1989-90	0	0	0	21	27	308	71	34	11	5	0	0	477
1990-91	0	0	0	6	14	69	75	88	52	0	0	0	304
1991-92	0	0	0	0	85	76	187	79	51	19	8	0	505
1992-93	0	0	0	0	47	102	73	131	80	12	0	0	445
1993-94	0	0	0	10	45	201	158	61	42	3	0	0	520
1994-95	0	0	0	0	6	88	205	153	24	5	0	0	481
1995-96	0	0	0	0	76	191	208	173	149	12	0	0	809
1996-97	0	0	0	6	38	122	164	43	0	7	0	0	380
1997-98	0	0	0	6	45	170	130	124	127	8	0	0	610
1998-99	0	0	0	0	7	64	109	92	61	12	5	0	350
1999-00	0	0	0	3	20	140	164	105	2	18	0	0	452
2000-01	0	0	0	4	70	217	300	49	55	11	0	0	706
2001-02	0	0	0	11	0	87	196	119	44	0	0	0	457
2002-03	0	0	0	0	77	178	337	89	14	19	0	0	714
2003-04	0	0	0	0	24	171	193	111	35	20	0	0	554
2004-05	0	0	0	0	6	166	136	78	101	14	0	0	501
2005-06	0	0	0	18	22	155	115	153	36	0	0	0	499
2006-07	0	0	0	9	72	48	108	160	37	19	0	0	453
2007-08	0	0	0	0	24	45	150	64	36	19	0	0	338
2008-09	0	0	0	23	108	85	200	155	50	16	0	0	637
2009-10	0	0	0	11	32	127	348	290	134	0	0	0	942
2010-11	0	0	0	0	32	392	186	70	23	0	0	0	703
2011-12	0	0	0	8	23	52	162	56	8	4	0	0	313
2012-13	0	0	0	18	58	89	57	90	149	0	0	0	461
2013-	0	0	0	0	23	34							

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**COOLING DEGREE DAYS (base 65°F) 2013 ORLANDO (KMCO)**

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1984	37	35	84	151	332	411	490	520	426	331	99	107	3023
1985	27	74	137	191	386	531	539	548	451	454	262	45	3645
1986	25	69	124	139	372	506	543	573	507	392	333	121	3704
1987	32	38	82	127	376	549	582	627	540	230	163	78	3424
1988	26	43	95	223	336	466	496	559	573	275	182	61	3335
1989	101	111	213	216	408	509	573	579	523	346	153	19	3751
1990	102	156	156	206	453	514	559	581	518	388	149	116	3898
1991	121	71	143	315	455	490	553	565	508	326	118	98	3763
1992	28	79	101	175	325	496	612	540	507	265	217	62	3407
1993	120	14	80	118	334	514	591	573	492	331	146	18	3331
1994	39	107	149	284	393	495	517	501	436	352	218	89	3580
1995	19	52	132	241	476	455	546	567	518	391	103	74	3574
1996	33	72	93	217	477	512	561	524	478	283	124	46	3420
1997	46	125	234	155	353	452	546	552	475	290	82	69	3379
1998	55	38	96	206	402	605	599	579	485	390	201	139	3795
1999	82	69	54	297	336	460	560	578	471	321	130	38	3396
2000	35	42	159	188	410	496	553	542	499	257	97	63	3341
2001	32	117	117	217	352	474	515	542	419	289	140	134	3348
2002	93	30	192	291	414	445	525	515	523	414	105	25	3572
2003	1	63	232	214	469	475	546	519	466	342	206	17	3550
2004	27	48	115	151	388	538	558	555	502	346	169	50	3447
2005	55	47	105	133	351	463	619	629	523	336	153	10	3424
2006	66	45	118	291	381	490	554	568	488	301	107	136	3545
2007	86	37	149	188	353	480	565	609	511	426	109	128	3641
2008	54	105	111	209	411	492	514	522	483	306	80	75	3362
2009	26	33	135	220	405	519	533	573	504	405	167	96	3616
2010	26	8	15	193	440	561	596	595	511	296	120	0	3361
2011	20	109	151	328	420	535	579	593	500	236	140	85	3696
2012	19	122	224	248	426	452	565	549	485	346	55	97	3588
2013	101	99	51	285	336	509	529	581	494	375	201	133	3694

**SNOWFALL (inches) 2013 ORLANDO (KMCO)**

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
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	T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T
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	T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T	T	0.0	0.0	T
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	T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	0.0	0.0	0.0	0.0	0.0	0.0	T	T	0.0	T
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	T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T
2001-02	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
2002-03	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
2003-04	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
2004-05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T	0.0	0.0	T
2005-06	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
2006-07	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
2007-08	T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T	T
2008-09	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T	0.0	0.0	T
2009-10	0.0	0.0	0.0	0.0	0.0	0.0	T	0.0	0.0	0.0	T	0.0	T
2010-11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T	T
2011-12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T	0.0	0.0	T
2012-13	T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T
2013-	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
POR= 59 YRS	T	T	0.0	0.0	0.0	0.0	T	0.0	T	T	T	T	T

WBAN : 12815

**REFERENCE NOTES :**

<p>PAGE 1: THE TEMPERATURE GRAPH SHOWS NORMAL MAXIMUM AND NORMAL MINIMUM DAILY TEMPERATURES (SOLID CURVES) AND THE ACTUAL DAILY HIGH AND LOW TEMPERATURES (VERTICAL BARS).</p> <p>PAGE 2 AND 3: H/C INDICATES HEATING AND COOLING DEGREE DAYS. RH INDICATES RELATIVE HUMIDITY W/O INDICATES WEATHER AND OBSTRUCTIONS S INDICATES SUNSHINE. PR INDICATES PRESSURE. CLOUDINESS ON PAGE 3 IS THE SUM OF THE CEILOMETER AND SATELLITE DATA NOT TO EXCEED EIGHT EIGHTHS(OKTAS).</p> <p>GENERAL: T INDICATES TRACE PRECIPITATION, AN AMOUNT GREATER THAN ZERO BUT LESS THAN THE LOWEST REPORTABLE VALUE. + INDICATES THE VALUE ALSO OCCURS ON EARLIER DATES. BLANK ENTRIES DENOTE MISSING OR UNREPORTED DATA. ASOS INDICATES AUTOMATED SURFACE OBSERVING SYSTEM. PM INDICATES THE LAST DAY OF THE PREVIOUS MONTH. POR (PERIOD OF RECORD) BEGINS WITH THE JANUARY DATA MONTH AND IS THE NUMBER OF YEARS USED TO COMPUTE THE MEAN. INDIVIDUAL MONTHS WITHIN THE POR MAY BE MISSING. WHEN THE POR FOR A NORMAL IS LESS THAN 30 YEARS, THE NORMAL IS PROVISIONAL AND IS BASED ON THE NUMBER OF YEARS INDICATED. 0.* OR * INDICATES THE VALUE OR MEAN-DAYS-WITH IS BETWEEN 0.00 AND 0.05. CLOUDINESS FOR ASOS STATIONS DIFFERS FROM THE NON-ASOS OBSERVATION TAKEN BY A HUMAN OBSERVER. ASOS STATION CLOUDINESS IS BASED ON TIME-AVERAGED CEILOMETER DATA FOR CLOUDS AT OR BELOW 12,000 FEET CLEAR INDICATES 0 - 2 OKTAS, PARTLY CLOUDY INDICATES 3 - 6 OKTAS, AND CLOUDY INDICATES 7 OR 8 OKTAS.</p> <p>GENERAL CONTINUED: WIND DIRECTION IS RECORDED IN TENS OF DEGREES (2 DIGITS) CLOCKWISE FROM TRUE NORTH. "00" INDICATES CALM. "36" INDICATES TRUE NORTH. RESULTANT WIND IS THE VECTOR AVERAGE OF THE SPEED AND DIRECTION. AVERAGE TEMPERATURE IS THE SUM OF THE MEAN DAILY MAXIMUM AND MINIMUM TEMPERATURE DIVIDED BY 2. SNOWFALL DATA COMPRISE ALL FORMS OF FROZEN</p>	<p>PRECIPITATION, INCLUDING HAIL. A HEATING (COOLING) DEGREE DAY IS THE DIFFERENCE BETWEEN THE AVERAGE DAILY TEMPERATURE AND 65 F. DRY BULB IS THE TEMPERATURE OF THE AMBIENT AIR. DEW POINT IS THE TEMPERATURE TO WHICH THE AIR MUST BE COOLED TO ACHIEVE 100 PERCENT RELATIVE HUMIDITY. WET BULB IS THE TEMPERATURE THE AIR WOULD HAVE IF THE MOISTURE CONTENT WAS INCREASED TO 100 PERCENT RELATIVE HUMIDITY. ON JULY 1, 1996, THE NATIONAL WEATHER SERVICE BEGAN USING THE "METAR" OBSERVATION CODE THAT WAS ALREADY EMPLOYED BY MOST OTHER NATIONS OF THE WORLD. THE MOST NOTICEABLE DIFFERENCE IN THIS ANNUAL PUBLICATION WILL BE THE CHANGE IN UNITS FROM TENTHS TO EIGHTHS(OKTAS) FOR REPORTING THE AMOUNT OF SKY COVER. STATION HISTORY STOPPED WITH THE 2009 ANNUAL. IF YOU NEED STATION HISTORY INFORMATION GO TO "Historical Observing Metadata Repository", URL IS: <a href="http://www.ncdc.noaa.gov/homr/">http://www.ncdc.noaa.gov/homr/</a> SNOWFALL STOPPED MONTH &amp; YEAR INDICATED ABOVE. NO FURTHER YEARS INCLUDED UNLESS RESTARTED.</p> <p><b>NOTE:</b> The "Period of Record:(POR)" for all "averages" is based on "Summary of the Day First Order Station" and "Cooperative Summary of the Day" archives.</p>
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# 2013 ORLANDO FLORIDA (KMCO)

Orlando is located in the central section of the Florida peninsula, surrounded by many lakes. Relative humidities remain high the year-round, with values near 90 percent at night and 40 to 50 percent in the afternoon. On some winter days, the humidity may drop to 20 percent.

The rainy season extends from June through September, sometimes through October when tropical storms are near. During this period, scattered afternoon thunderstorms are an almost daily occurrence, and these bring a drop in temperature to make the climate bearable. Summer temperatures above 95 degrees are rather rare. There is usually a breeze which contributes to the general comfort.

During the winter months rainfall is light. While temperatures, on infrequent occasion, may drop at night to near freezing, they rise rapidly during the day and, in brilliant sunshine, afternoons are pleasant.

Frozen precipitation in the form of snowflakes, snow pellets, or sleet is rare. However, hail is occasionally reported during thunderstorms.

Hurricanes are usually not considered a great threat to Orlando, since, to reach this area, they must pass over a substantial stretch of land and, in so doing, lose much of their punch. Sustained hurricane winds of 75 mph or higher rarely occur. Orlando, being inland, is relatively safe from high water, although heavy rains sometimes briefly flood sections of the city.

# Station History

ORLANDO, FL

NAME	Begin Date	End Date	Latitude	Longitude	Elevation Feet	Relocation	Platform
PINECASTLE AAF	1944-01-01	1946-10-31	28° 27'	-81° 19'			MILITARY
MCCOY AFB	1958-05-01	1974-01-01	28° 27'	-81° 18'			MILITARY
ORLANDO INTL AP	1976-11-26	1981-12-31	28° 25'	-81° 19'	96		COOP,WXSVC
ORLANDO INTL AP	2005-01-02	Present	28° 26'	-81° 19'	90		ASOS,COOP
MCCOY AFB	1974-01-01	1974-02-01	28° 27'	-81° 18'			COOP,WXSVC
ORLANDO JETPORT AT MCCOY	1974-02-01	1976-11-26	28° 25'	-81° 19'	96		COOP,WXSVC
PINECASTLE AFB	1952-05-01	1958-05-01	28° 27'	-81° 18'			MILITARY
ORLANDO INTL AP	1981-12-31	1984-10-01	28° 25'	-81° 19'	96		COOP
ORLANDO INTL AP	1988-01-01	1996-07-01	28° 27'	-81° 19'	96		COOP
ORLANDO INTL AP	1996-07-01	2005-01-02	28° 26'	-81° 19'	96		ASOS,COOP
ORLANDO INTL AP	1984-10-01	1988-01-01	28° 27'	-81° 19'	91	1.4 MI NE	COOP

# Element History

Element	Begin Date	End Date	Frequency	Time Of Observation	Equipment *	Equipment * Modifications	Equipment Exposure
TEMP	2005-01-02	2010-06-01	DAILY	2400	ATEMP		
PRECIP	2010-06-01	Present	HOURLY	2400	AWPAG	RCRD;HTD	
PRECIP	1996-07-01	2005-01-02	HOURLY	2400	TB	RCRD	
PRECIP	1974-05-01	1988-01-01	DAILY	2400	UNIV	RCRD	
TEMP	2010-06-01	Present	DAILY	2400	ATEMP		
PRECIP	1988-01-01	1995-07-01	HOURLY	2400			
PRECIP	1988-01-01	1995-07-01	DAILY	2400	UNIV	RCRD	
TEMP	1996-07-01	2005-01-02	DAILY	2400	HYGR		
PRECIP	1995-07-01	1996-07-01	HOURLY	2400	UNIV	RCRD	
TEMP	1995-07-01	1996-07-01	DAILY	2400	HYGR		
PRECIP	1995-07-01	1996-07-01	DAILY	2400	UNIV	RCRD	
PRECIP	2005-01-02	2010-06-01	HOURLY	2400	AHTB	RCRD;HTD	
PRECIP	1974-02-01	1974-05-01	DAILY	2400	UNIV	RCRD	
TEMP	1974-02-01	1974-05-01	DAILY	2400			
TEMP	1974-05-01	1988-01-01	DAILY	2400			
PRECIP	1974-05-01	1988-01-01	HOURLY	2400			
TEMP	1988-01-01	1995-07-01	DAILY	2400	HYGR		
PRECIP	1996-07-01	2005-01-02	DAILY	2400			
PRECIP	2005-01-02	2010-06-01	DAILY	2400	PCPNX		
PRECIP	2010-06-01	Present	DAILY	2400	PCPNX		

\* 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

Fax Number : (828) 271-4876

TDD : (828) 271-4010

Email : [ncdc.orders@noaa.gov](mailto:ncdc.orders@noaa.gov)

NOAA/National Climatic Data Center

Attn: User Engagement & Services Branch

151 Patton Avenue

Asheville, NC 28801-5001

Visit our Web Site for other weather data: [www.ncdc.noaa.gov](http://www.ncdc.noaa.gov)