

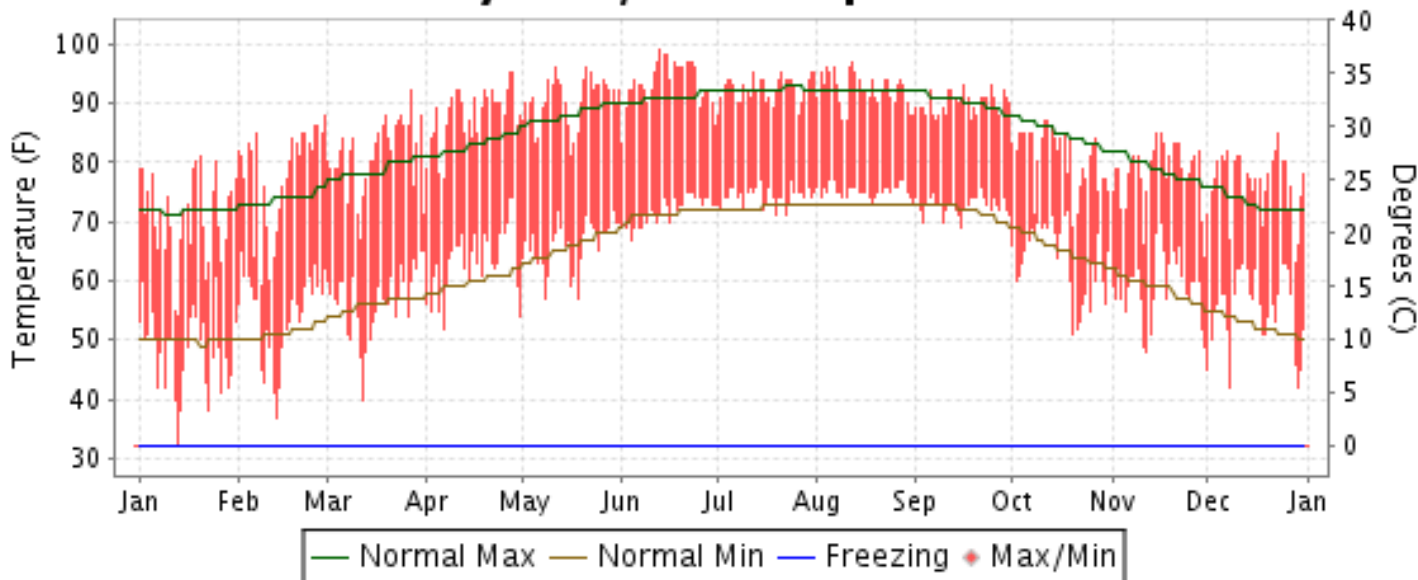


2011 LOCAL CLIMATOLOGICAL DATA ANNUAL SUMMARY WITH COMPARATIVE DATA

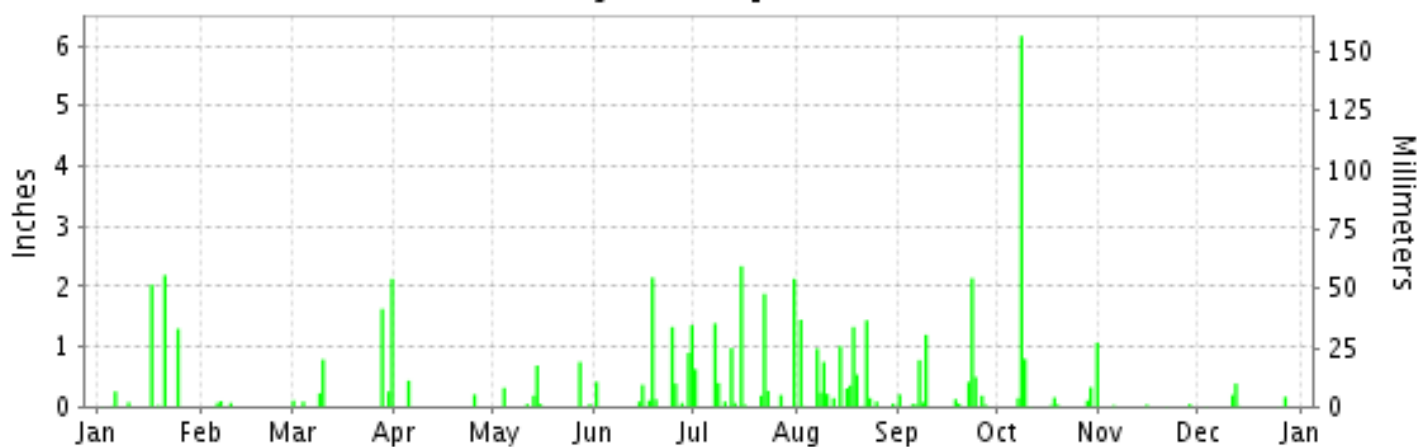
ISSN 0198-1277

ORLANDO, FLORIDA (KMCO)

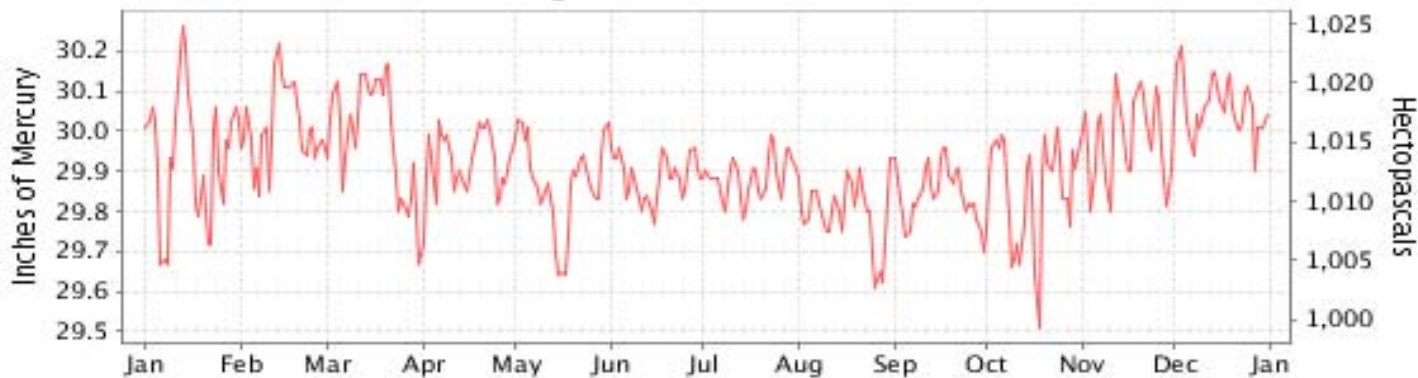
Daily Max/Min Temperature



Daily Precipitation



Daily Station Pressure



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NATIONAL
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NATIONAL
ENVIRONMENTAL SATELLITE, DATA
AND INFORMATION SERVICE

NATIONAL
CLIMATIC DATA CENTER
ASHEVILLE, NORTH CAROLINA

Thomas R. Karl
DIRECTOR
NATIONAL CLIMATIC DATA CENTER

METEOROLOGICAL DATA FOR 2011

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	70.8	78.0	81.4	88.1	90.5	93.4	92.4	92.3	89.9	80.8	78.3	76.5	84.4	
	HIGHEST DAILY MAXIMUM	81	88	92	95	96	99	95	97	93	87	85	85	99	
	DATE OF OCCURRENCE	20	28	27	28+	21+	13	31+	12	24+	12+	16+	23	JUN 13	
	MEAN DAILY MINIMUM	48.0	54.3	56.5	63.3	66.1	71.9	74.3	75.2	72.7	63.5	59.0	55.2	63.3	
	LOWEST DAILY MINIMUM	32	37	40	52	57	67	71	73	69	51	48	42	32	
	DATE OF OCCURRENCE	13	13	12	06	18+	04	22+	31+	15	20	12	29+	JAN 13	
	AVERAGE DRY BULB	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	
	MEAN WET BULB	53.4	58.7	60.7	67.0	68.6	73.5	76.0	77.0	74.4	66.0	62.5	60.0	66.5	
	MEAN DEW POINT	47.9	53.8	55.2	62.0	63.6	70.0	73.4	75.1	72.1	62.2	58.9	56.6	62.6	
	NUMBER OF DAYS WITH:														
	MAXIMUM >= 90°	0	0	1	14	23	26	28	27	16	0	0	0	0	135
	MAXIMUM <= 32°	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MINIMUM <= 32°	1	0	0	0	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	0	
H/C	HEATING DEGREE DAYS	186	70	23	0	0	0	0	0	0	8	23	52	362	
	COOLING DEGREE DAYS	20	109	151	328	420	535	579	593	500	236	140	85	3696	
RH	MEAN (PERCENT)	69	71	68	66	66	72	78	83	80	75	76	77	73	
	HOUR 01 LST	84	87	83	85	85	87	92	95	93	87	88	90	88	
	HOUR 07 LST	83	89	83	77	72	76	84	89	87	82	85	90	83	
	HOUR 13 LST	48	47	44	43	40	51	59	64	60	58	55	53	52	
	HOUR 19 LST	69	68	65	64	65	74	80	86	84	76	77	79	74	
S	PERCENT POSSIBLE SUNSHINE														
W/O	NUMBER OF DAYS WITH:														
	HEAVY FOG(VISBY <= 1/4 MI)	2	6	3	0	0	1	2	0	1	0	0	1	16	
	THUNDERSTORMS	5	0	4	4	8	13	15	25	12	1	0	0	87	
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.)	29.94	30.01	29.99	29.92	29.87	29.88	29.88	29.80	29.85	29.85	29.98	30.06	29.92	
	MEAN SEA-LEVEL PRESS. (IN.)	30.06	30.12	30.10	30.04	29.98	29.99	30.00	29.91	29.96	29.96	30.10	30.18	30.03	
WINDS	RESULTANT SPEED (MPH)	2.5	0.6	0.8	2.2	2.2	1.7	1.5	1.9	1.1	4.0	3.5	3.0	0.8	
	RES. DIR. (TENS OF DEGS.)	29	24	12	13	12	12	12	22	11	03	03	04	08	
	MEAN SPEED (MPH)	7.8	6.6	7.8	7.4	6.8	5.8	5.1	6.0	4.7	7.8	8.5	7.2	6.8	
	PREVAIL.DIR.(TENS OF DEGS.)	28	32	08	10	12	07	17	22	08	35	35	36	35	
	MAXIMUM 2-MINUTE WIND														
	SPEED (MPH)	35	33	44	35	31	45	33	31	36	32	24	25	45	
	DIR. (TENS OF DEGS.)	27	21	28	27	31	19	12	31	21	07	06	30	19	
	DATE OF OCCURRENCE	25	07	30	05	13	18	07	07	09	09	18	07	JUN 18	
	MAXIMUM 3-SECOND WIND:														
	SPEED (MPH)	44	41	61	44	41	70	41	39	44	40	30	33	70	
DIR. (TENS OF DEGS.)	28	22	27	27	31	16	16	04	21	07	17	30	16		
DATE OF OCCURRENCE	25	07	30	05	13	18	22	25	09	09	28	07	JUN 18		
PRECIPITATION	WATER EQUIVALENT:														
	TOTAL (IN.)	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	
	GREATEST 24-HOUR (IN.)	2.19	0.10	2.19	0.44	0.87	2.15	2.34	1.87	2.16	6.25	0.05	0.59	6.25	
	DATE OF OCCURRENCE	21	07	30-31	05	13-14	18	15	18-19	22-23	08-09	28	11-12	OCT 08-09	
	NUMBER OF DAYS WITH:														
	PRECIPITATION 0.01	8	4	7	2	7	12	14	17	14	11	4	6	106	
PRECIPITATION 0.10	4	1	6	2	4	9	10	13	8	7	0	3	67		
PRECIPITATION 1.00	3	0	2	0	0	3	4	4	2	2	0	0	20		
SNOWFALL	SNOW,ICE PELLETS,HAIL														
	TOTAL (IN.)	0.0	0.0	0.0	0.0	0.0	T	0.0	0.0	0.0	0.0	0.0	0.0	T	
	GREATEST 24-HOUR (IN.)	0.0	0.0	0.0	0.0	0.0	T	0.0	0.0	0.0	0.0	0.0	0.0	T	
	DATE OF OCCURRENCE						18							JUN 18	
	MAXIMUM SNOW DEPTH (IN.)	0	0	0	0	0	0	0	0	0	0	0	0	0	
	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
TEMPERATURE °F	NORMAL DAILY MAXIMUM	30	71.8	73.9	78.8	83.0	88.2	91.0	92.2	92.0	90.3	85.0	78.9	73.3	83.2
	MEAN DAILY MAXIMUM	55	70.5	72.9	77.5	82.6	87.6	90.1	91.2	91.0	89.0	83.7	77.7	72.3	82.2
	HIGHEST DAILY MAXIMUM	69	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	1992	1978	MAY 1945
	MEAN OF EXTREME MAXS.	59	82.7	84.3	87.6	90.5	94.0	95.4	95.6	95.2	93.5	90.7	85.9	82.9	89.9
	NORMAL DAILY MINIMUM	30	49.9	51.3	55.9	59.9	65.9	71.3	72.6	73.0	71.9	65.5	58.7	52.6	62.4
	MEAN DAILY MINIMUM	55	48.9	51.3	55.7	60.4	66.4	71.5	73.3	73.8	72.5	65.9	57.9	51.7	62.4
	LOWEST DAILY MINIMUM	69	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.	59	31.8	35.7	40.4	48.6	58.0	66.4	69.7	70.3	67.2	52.7	43.1	35.0	51.6
	NORMAL DRY BULB	30	60.9	62.6	67.4	71.5	77.1	81.2	82.4	82.5	81.1	75.3	68.8	63.0	72.8
	MEAN DRY BULB	59	60.2	62.2	66.8	71.6	77.2	81.1	82.4	82.5	80.9	75.0	67.9	62.2	72.5
	MEAN WET BULB	28	54.0	55.6	58.8	62.2	68.0	73.0	74.8	75.2	73.7	67.8	61.8	56.5	65.1
	MEAN DEW POINT	28	51.8	53.3	56.3	59.6	65.9	71.7	73.4	74.0	72.5	66.4	60.2	54.4	63.3
	NORMAL NO. DAYS WITH: MAXIMUM >= 90	30	0.0	0.0	0.5	3.2	11.9	19.8	25.3	25.4	19.0	3.6	0.0	*	108.7
	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	1.5	0.5	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6
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	
H/C	NORMAL HEATING DEG. DAYS	30	202	128	57	9	0	0	0	0	0	2	40	142	580
	NORMAL COOLING DEG. DAYS	30	62	60	129	201	373	485	539	543	484	319	154	79	3428
RH	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	71
S	PERCENT POSSIBLE SUNSHINE														
W/O	MEAN NO. DAYS WITH: HEAVY FOG(VISBY <= 1/4 MI)	44	3.1	2.6	1.6	1.0	1.0	0.6	0.5	0.6	0.8	1.0	1.7	3.1	17.6
	THUNDERSTORMS	55	1.1	1.6	3.0	3.2	7.0	14.8	18.1	17.7	9.7	2.4	1.0	0.9	80.5
CLOUDINESS	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
PR	MEAN STATION PRESSURE(IN)	28	30.02	30.00	29.96	29.92	29.90	29.91	29.94	29.91	29.87	29.91	29.97	30.02	29.94
	MEAN SEA-LEVEL PRES. (IN)	28	30.14	30.11	30.07	30.04	30.01	30.02	30.05	30.02	29.98	30.02	30.09	30.13	30.06
WINDS	MEAN SPEED (MPH)	28	8.3	8.5	9.2	8.7	8.2	7.0	6.4	6.4	7.1	7.8	8.1	7.8	7.8
	PREVAIL.DIR(TENS OF DEGS)	46	36	36	09	11	10	10	19	19	06	36	36	36	36
	MAXIMUM 2-MINUTE: SPEED (MPH)	15	36	38	44	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	2011	2010	1997	2009	2007	2004	2004	1999	2008	2010	AUG 2004
	MAXIMUM 3-SECOND SPEED (MPH)	15	49	47	61	54	70	70	61	105	78	48	48	48	105
	DIR. (TENS OF DEGS)		25	20	27	30	34	16	27	12	04	36	23	20	12
YEAR OF OCCURRENCE		2008	1998	2011	2010	1997	2011	2007	2004	2004	2005	2008	2002	AUG 2004	
PRECIPITATION	NORMAL (IN)	30	2.43	2.35	3.54	2.42	3.74	7.35	7.15	6.25	5.76	2.73	2.32	2.31	48.35
	MAXIMUM MONTHLY (IN)	69	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)	69	0.15	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		1950	1944	2006	1977	1961	1998	1992	2001	1972	2010	1967	1944	OCT 2010
	MAXIMUM IN 24 HOURS (IN)	69	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	7.2	7.0	7.0	5.4	8.7	14.8	16.4	16.2	13.2	8.0	6.5	6.6	117.0
	PRECIPITATION >= 1.00	30	0.6	0.5	1.1	0.7	1.3	2.4	2.2	2.0	1.8	0.8	0.8	0.6	14.8
SNOWFALL	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)	39	T	0.0	T	T	T	T	T	T	T	0.0	0.0	0.0	T
	YEAR OF OCCURRENCE		2010		1992	2009	2010	2011	2007	1989					JUN 2011
	MAXIMUM IN 24 HOURS (IN)	39	T	0.0	T	T	T	T	T	T	0.0	0.0	0.0	0.0	T
	YEAR OF OCCURRENCE		2010		1992	2009	2010	2011	1993	1989					JUN 2011
	MAXIMUM SNOW DEPTH (IN)	54	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) 2011 ORLANDO (KMCO)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1982	1.72	1.34	4.85	6.27	5.29	6.06	11.81	5.03	6.96	0.74	0.53	1.01	51.61
1983	2.08	8.32	5.37	3.21	1.77	7.82	6.49	4.83	5.16	3.78	1.36	5.33	55.52
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
POR= 59 YRS	2.33	2.63	3.54	2.29	3.48	7.46	7.35	6.69	5.87	3.22	1.91	2.24	49.01

WBAN : 12815

AVERAGE TEMPERATURE (°F) 2011 ORLANDO (KMCO)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1982	60.0	68.4	70.4	72.6	75.3	82.0	82.6	82.2	80.2	74.1	70.8	66.7	73.8
1983	58.0	59.9	63.5	68.6	76.4	80.5	83.2	83.5	80.6	76.5	65.8	61.2	71.5
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
POR= 59 YRS	60.2	62.2	66.8	71.6	77.2	81.1	82.4	82.5	80.9	75.0	67.9	62.2	72.5

HEATING DEGREE DAYS (base 65°F) 2011 ORLANDO (KMCO)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1982-83	0	0	0	14	16	94	233	148	105	13	0	0	623
1983-84	0	0	0	0	63	188	252	137	86	18	0	0	744
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-	0	0	0	8	23	52							

WBAN : 12815

COOLING DEGREE DAYS (base 65°F) 2011 ORLANDO (KMCO)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1982	56	123	211	241	325	518	550	542	465	303	196	152	3682
1983	22	11	68	129	361	473	573	582	476	362	95	77	3229
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

SNOWFALL (inches) 2011 ORLANDO (KMCO)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
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	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-	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= 57 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. 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: https://mi3.ncdc.noaa.gov/mi3qry/login.cfm SNOWFALL STOPPED MONTH & YEAR INDICATED ABOVE. NO FURTHER YEARS INCLUDED UNLESS RESTARTED.</p> <p>NOTE: The "Period of Record:(POR) for all "averages" is based on the "Summary of the Day First Order Station" and "Cooperative Summary of the Day" archives.</p>
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2011 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 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
PINECASTLE AAF	1944-01-01	1946-10-31	28° 27'	-81° 19'			MILITARY
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
ORLANDO INTL AP	1984-10-01	1988-01-01	28° 27'	-81° 19'	91	1.4 MI NE	COOP
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
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

Element History

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

Fax Number : (828) 271-4876

TDD : (828) 271-4010

Email : ncdc.info@noaa.gov

NOAA/National Climatic Data Center

Attn: User Engagement & Services Branch

151 Patton Avenue

Asheville, NC 28801-5001

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