

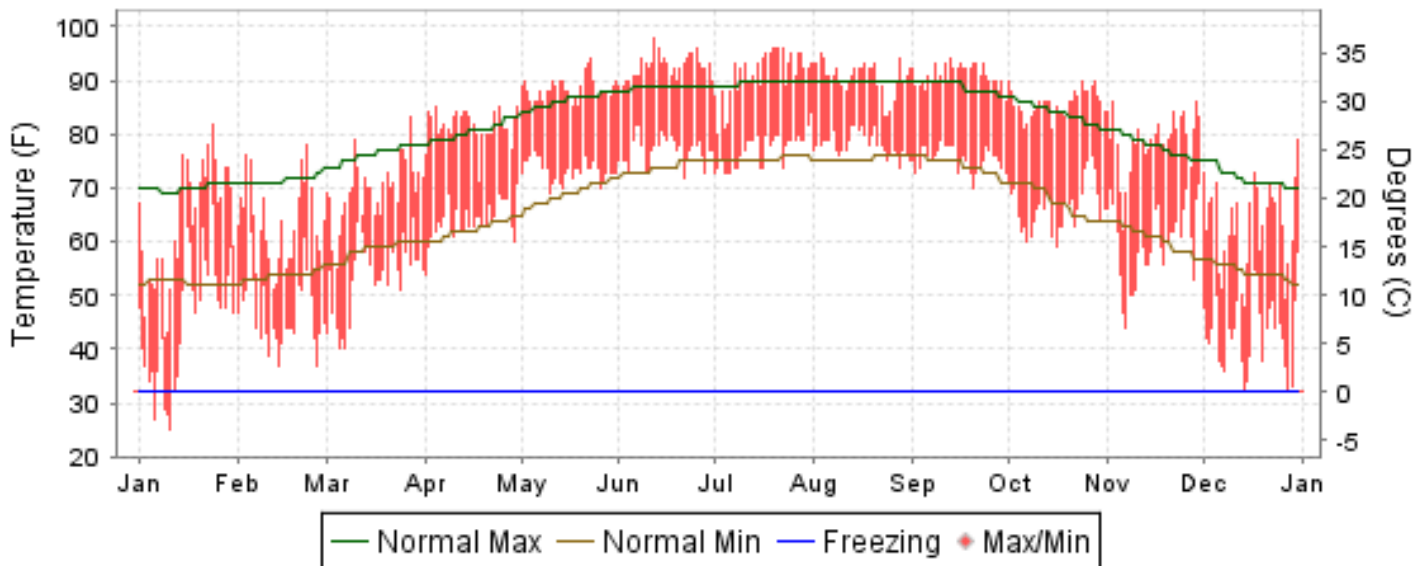


# 2010 LOCAL CLIMATOLOGICAL DATA ANNUAL SUMMARY WITH COMPARATIVE DATA

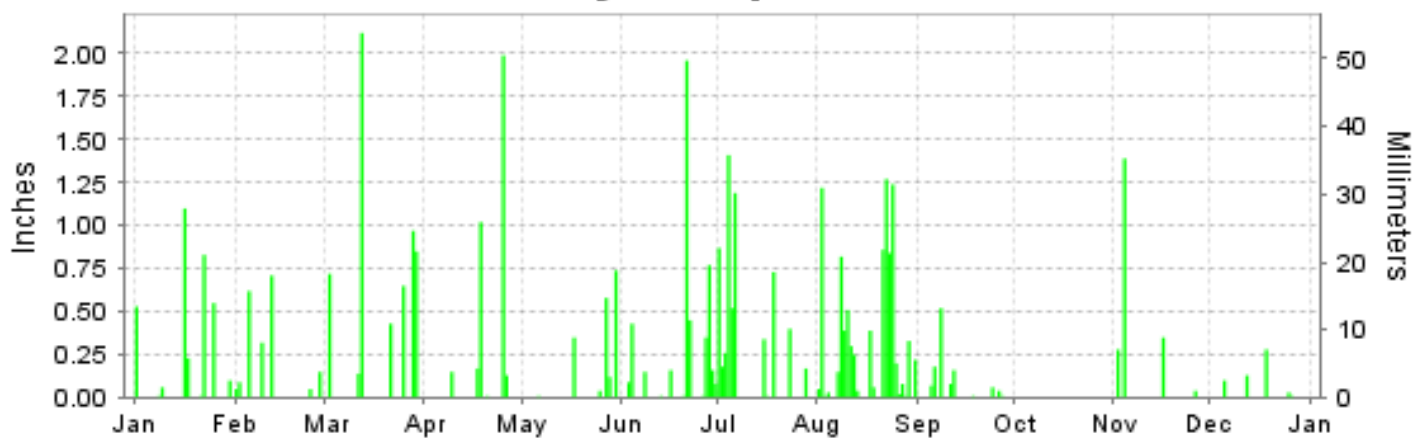
ISSN 0198-1307

## TAMPA, FLORIDA (KTPA)

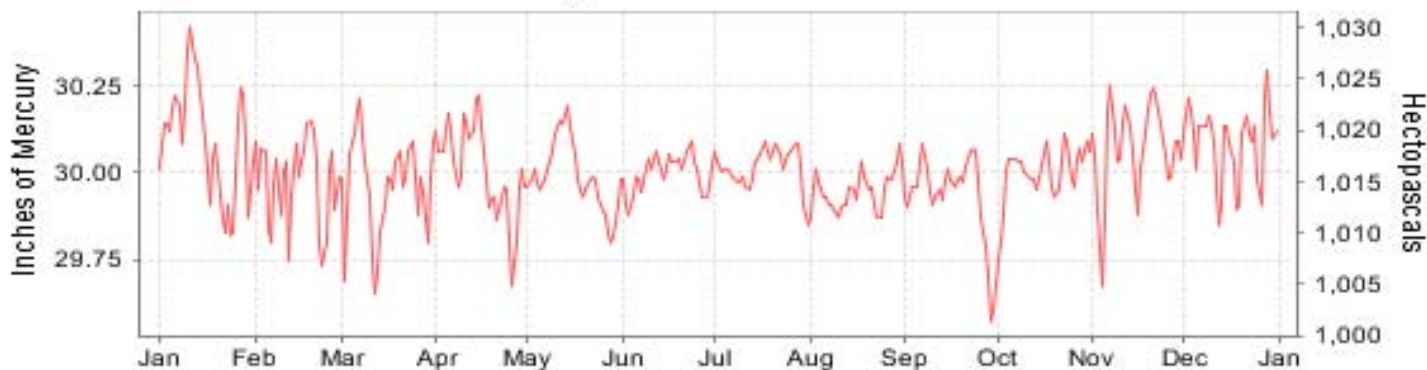
### Daily Max/Min Temperature



### 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 2010

## TAMPA (KTPA)

LATITUDE: 27 ° 57'N      LONGITUDE: -82 ° 32'W      ELEVATION (FT): GRND: 8      BARO: 40      TIME ZONE: EASTERN (UTC -5)      WBAN: 12842

ELEMENT		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	
TEMPERATURE °F	MEAN DAILY MAXIMUM	63.9	63.2	69.7	81.5	88.5	92.5	91.2	90.5	90.9	85.7	78.7	63.4	80.0	
	HIGHEST DAILY MAXIMUM	82	78	83	85	94	98	96	95	94	90	86	79	98	
	DATE OF OCCURRENCE	24	23	27	30+	23	12	22+	03	13	28+	29+	31	JUN 12	
	MEAN DAILY MINIMUM	45.5	46.8	53.6	64.0	73.4	77.1	77.3	78.2	75.5	66.6	59.8	43.0	63.4	
	LOWEST DAILY MINIMUM	25	37	40	54	69	72	73	74	70	59	44	32	25	
	DATE OF OCCURRENCE	11	26+	07+	01	10	21	06+	28	20	16	07	28+	JAN 11	
	AVERAGE DRY BULB	54.7	55.0	61.7	72.8	81.0	84.8	84.3	84.4	83.2	76.2	69.3	53.2	71.7	
	MEAN WET BULB	49.2	49.0	54.7	64.4	73.1	76.0	76.3	77.2	74.1	66.0	61.2	46.5	64.0	
	MEAN DEW POINT	43.8	43.0	48.9	59.4	69.5	72.4	73.0	74.6	70.5	60.1	55.7	39.2	59.2	
	NUMBER OF DAYS WITH:														
	MAXIMUM >= 90°	0	0	0	0	9	28	22	23	25	3	0	0	110	
	MAXIMUM <= 32°	0	0	0	0	0	0	0	0	0	0	0	0	0	
MINIMUM <= 32°	5	0	0	0	0	0	0	0	0	0	0	2	7		
MINIMUM <= 0°	0	0	0	0	0	0	0	0	0	0	0	0	0		
H/C	HEATING DEGREE DAYS	332	280	118	0	0	0	0	0	0	0	24	363	1117	
	COOLING DEGREE DAYS	20	7	23	239	502	601	605	607	555	353	160	4	3676	
RH	MEAN (PERCENT)	70	68	67	67	72	70	73	76	70	62	66	63	69	
	HOUR 01 LST	80	75	79	80	82	80	83	84	81	76	76	73	79	
	HOUR 07 LST	79	72	75	77	79	77	78	80	77	72	78	72	76	
	HOUR 13 LST	55	56	53	48	57	55	58	65	54	40	49	46	53	
	HOUR 19 LST	71	71	67	67	72	70	73	78	69	62	67	64	69	
S	PERCENT POSSIBLE SUNSHINE	87	84	80	91	90	85								
W/O	NUMBER OF DAYS WITH:														
	HEAVY FOG(VISBY <= 1/4 MI)	1	1	1	0	0	0	1	0	0	0	0	1	5	
	THUNDERSTORMS	0	0	3	3	2	12	9	15	5	0	2	0	51	
CLOUDNESS	SUNRISE-SUNSET: (OKTAS)														
	CEILOMETER (<= 12,000 FT.)														
	SATELLITE (> 12,000 FT.)														
	MIDNIGHT-MIDNIGHT: (OKTAS)														
	CEILOMETER (<= 12,000 FT.)														
SATELLITE (> 12,000 FT.)															
NUMBER OF DAYS WITH:															
CLEAR															
PARTLY CLOUDY															
CLOUDY															
PR	MEAN STATION PRESS. (IN.)	30.10	29.98	29.96	30.01	29.99	30.00	30.02	29.95	29.93	30.00	30.07	30.09	30.01	
	MEAN SEA-LEVEL PRESS. (IN.)	30.11	29.99	29.98	30.03	30.00	30.01	30.03	29.96	29.95	30.01	30.08	30.10	30.02	
WINDS	RESULTANT SPEED (MPH)	1.8	3.3	4.6	0.3	1.4	1.0	0.5	1.9	1.7	2.2	1.8	3.6	1.0	
	RES. DIR. (TENS OF DEGS.)	34	32	27	21	20	22	22	21	06	35	03	33	31	
	MEAN SPEED (MPH)	7.2	7.3	8.6	7.0	6.6	5.5	5.3	5.9	5.1	5.4	5.8	7.1	6.4	
	PREVAIL.DIR.(TENS OF DEGS.)	01	31	29	05	10	24	26	24	07	03	03	01	29	
	MAXIMUM 2-MINUTE WIND														
	SPEED (MPH)	31	30	29	26	21	25	23	24	18	21	26	29	31	
	DIR. (TENS OF DEGS.)	29	32	26	26	12	16	20	18	31	28	35	32	29	
	DATE OF OCCURRENCE	25	12	02	25	11	28	15	24	30	01	04	13	JAN 25	
	MAXIMUM 3-SECOND WIND:														
	SPEED (MPH)	39	39	37	37	37	33	35	35	40	32	37	43	43	
DIR. (TENS OF DEGS.)	03	32	27	27	27	18	02	10	03	28	33	33	33		
DATE OF OCCURRENCE	22	12	30	26	08	28	15	31	12	01	05	13	DEC 13		
PRECIPITATION	WATER EQUIVALENT:														
	TOTAL (IN.)	3.42	1.99	5.88	3.47	1.84	4.63	6.08	9.29	1.13	T	2.06	0.55	40.34	
	GREATEST 24-HOUR (IN.)	1.33	0.71	2.12	2.12	0.74	1.97	1.73	1.82	0.52	T	1.39	0.28	2.12	
	DATE OF OCCURRENCE	16-17	12	12	25-26	30	21	04-05	22-23	08	01	04	18	APR 25-26	
	NUMBER OF DAYS WITH:														
	PRECIPITATION 0.01	9	7	7	6	6	13	11	23	9	0	4	5	100	
PRECIPITATION 0.10	6	4	7	5	4	8	10	15	3	0	3	3	68		
PRECIPITATION 1.00	1	0	1	2	0	1	2	3	0	0	1	0	11		
SNOWFALL	SNOW,ICE PELLETS,HAIL														
	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.)	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	
	DATE OF OCCURRENCE														
	MAXIMUM SNOW DEPTH (IN.)	0	0	0	0	0	0	0	0	0	0	0	0	0	
	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 TAMPA (KTPA)

LATITUDE: 27 ° 57'N      LONGITUDE: -82 ° 32'W      ELEVATION (FT): GRND: 8      BARO: 40      TIME ZONE: EASTERN (UTC -5)      WBAN: 12842

ELEMENT		POR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
TEMPERATURE °F	NORMAL DAILY MAXIMUM	30	70.1	71.6	76.3	80.6	86.3	88.9	89.7	90.0	89.0	84.1	78.0	72.0	81.4
	MEAN DAILY MAXIMUM	78	70.5	70.8	75.5	81.1	87.2	89.1	90.1	90.3	88.4	84.1	76.9	72.0	81.3
	HIGHEST DAILY MAXIMUM	64	86	88	91	93	98	99	97	98	96	94	90	86	99
	YEAR OF OCCURRENCE		2002	1971	1949	1975	1975	1985	1995	1975	1991	1990	2006	1994	JUN 1985
	MEAN OF EXTREME MAXS.	78	80.9	82.0	85.2	88.7	93.0	94.7	94.5	94.4	93.4	90.5	85.5	82.0	88.7
	NORMAL DAILY MINIMUM	30	52.4	53.8	58.5	62.4	68.9	74.0	75.3	75.4	74.3	67.6	60.7	54.7	64.8
	MEAN DAILY MINIMUM	78	50.9	51.5	56.4	61.6	68.1	72.6	74.6	74.7	72.8	66.4	57.8	52.5	63.3
	LOWEST DAILY MINIMUM	64	21	24	29	40	49	53	63	67	57	40	23	18	18
	YEAR OF OCCURRENCE		1985	1958	1980	1987	1992	1984	1970	1973	1981	1964	1970	1962	DEC 1962
	MEAN OF EXTREME MINS.	78	32.6	36.2	41.2	48.7	58.5	67.0	70.5	71.0	67.5	52.7	42.0	35.1	51.9
	NORMAL DRY BULB	30	61.3	62.7	67.4	71.5	77.6	81.5	82.5	82.7	81.6	75.8	69.3	63.3	73.1
	MEAN DRY BULB	78	60.7	61.1	66.0	71.4	77.7	80.9	82.4	82.6	80.6	75.3	67.3	62.3	72.4
	MEAN WET BULB	27	54.9	56.4	59.7	63.4	69.4	74.1	75.5	75.9	74.2	68.2	62.1	56.9	65.9
	MEAN DEW POINT	27	52.6	54.0	57.3	60.8	67.0	72.4	74.1	74.5	72.8	66.4	60.1	54.6	63.9
	NORMAL NO. DAYS WITH: MAXIMUM >= 90	30	0.0	0.0	0.0	0.7	8.5	17.4	21.8	22.3	16.4	2.9	*	0.0	90.0
	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
MINIMUM <= 32	30	1.3	0.6	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	2.7	
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	187	136	63	13	0	0	0	0	0	4	44	144	591
	NORMAL COOLING DEG. DAYS	30	57	59	124	204	393	501	550	549	489	323	157	76	3482
RH	NORMAL (PERCENT)	30	76	74	73	70	71	75	77	79	79	76	76	77	75
	HOURLY 01 LST	30	85	84	83	82	82	85	86	88	88	87	86	86	85
	HOURLY 07 LST	30	87	87	87	86	85	86	88	90	91	90	89	88	88
	HOURLY 13 LST	30	60	57	55	52	54	60	64	65	63	58	59	61	59
	HOURLY 19 LST	30	74	70	68	64	64	70	74	76	76	73	74	75	72
S	PERCENT POSSIBLE SUNSHINE	57	66	66	71	75	75	67	62	62	62	66	64	61	66
W/O	MEAN NO. DAYS WITH: HEAVY FOG (VISIB <= 1/4 MI)	47	3.7	2.4	1.7	0.7	0.2	0.3	0.2	0.2	0.2	0.6	1.8	2.6	14.6
	THUNDERSTORMS	63	1.0	1.6	2.4	2.4	4.8	13.4	19.7	19.3	10.4	2.6	1.0	1.1	79.7
CLOUDNESS	MEAN: SUNRISE-SUNSET (OKTAS)														
	MIDNIGHT-MIDNIGHT (OKTAS)														
	MEAN NO. DAYS WITH: CLEAR	1	1.0	2.0	9.0		9.0	9.0							
	PARTLY CLOUDY	1	1.0	2.0	3.0		10.0	9.0							
CLOUDY	1	3.0	1.0	8.0		2.0	5.0								
PR	MEAN STATION PRESSURE (IN)	27	30.13	30.10	30.05	30.02	30.00	30.00	30.04	30.00	29.96	30.00	30.07	30.12	30.04
	MEAN SEA-LEVEL PRES. (IN)	27	30.14	30.11	30.07	30.03	30.01	30.01	30.05	30.01	29.97	30.01	30.08	30.13	30.05
WINDS	MEAN SPEED (MPH)	27	7.3	7.6	8.1	7.9	7.3	6.7	5.8	5.7	6.4	6.8	7.1	6.9	7.0
	PREVAIL. DIR. (TENS OF DEGS)	42	01	06	09	09	28	28	28	09	06	06	03	05	06
	MAXIMUM 2-MINUTE: SPEED (MPH)	15	44	36	31	44	36	33	37	30	45	40	35	43	45
	DIR. (TENS OF DEGS)		32	28	24	28	25	20	26	31	35	21	19	32	35
	YEAR OF OCCURRENCE		1999	1998	2005	1997	1999	2006	2004	2005	2004	1996	2000	2004	SEP 2004
	MAXIMUM 3-SECOND SPEED (MPH)	15	51	44	40	49	52	47	47	43	54	53	41	52	54
	DIR. (TENS OF DEGS)		32	09	24	28	09	13	20	12	35	21	17	31	35
	YEAR OF OCCURRENCE		1999	1998	2005	1997	2009	1996	2001	1996	2004	1996	2000	2004	SEP 2004
PRECIPITATION	NORMAL (IN)	30	2.27	2.67	2.84	1.80	2.85	5.50	6.49	7.60	6.54	2.29	1.62	2.30	44.77
	MAXIMUM MONTHLY (IN)	64	8.02	10.82	12.64	10.71	17.64	13.75	20.59	18.59	13.98	7.36	6.12	15.57	20.59
	YEAR OF OCCURRENCE		1948	1998	1959	1997	1979	1974	1960	1949	1979	1952	1963	1997	JUL 1960
	MINIMUM MONTHLY (IN)	64	T	0.21	T	T	0.02	1.46	1.65	2.35	.79	T	T	0.07	T
	YEAR OF OCCURRENCE		1950	1950	2006	1981	2001	1997	1981	1952	2005	2010	1960	1984	OCT 2010
	MAXIMUM IN 24 HOURS (IN)	64	3.81	8.54	5.20	5.44	11.84	5.53	12.11	5.37	8.45	2.93	4.48	4.76	12.11
	YEAR OF OCCURRENCE		1996	2006	1960	1997	1979	1974	1960	1949	1997	1985	1988	1997	JUL 1960
	NORMAL NO. DAYS WITH: PRECIPITATION >= 0.01	30	7.1	6.4	6.6	4.7	6.2	11.7	14.9	16.0	12.4	6.5	5.5	6.3	104.3
	PRECIPITATION >= 1.00	30	0.5	0.7	0.8	0.4	0.6	1.6	1.8	2.5	2.3	0.8	0.3	0.6	12.9
	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.*
MAXIMUM MONTHLY (IN)		64	0.2	T	0.0	T	0.0	0.0	T	T	0.0	T	0.0	T	0.2
YEAR OF OCCURRENCE			1977	1951	2006	1997			1998	2006		2010		1989	JAN 1977
MAXIMUM IN 24 HOURS (IN)		64	0.2	T	T	T	0.0	0.0	T	T	0.0	0.0	0.0	T	0.2
YEAR OF OCCURRENCE			1977	1951	1980	1997			1998	2006				1989	JAN 1977
MAXIMUM SNOW DEPTH (IN)		62	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) 2010 TAMPA (KTPA)**

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1981	0.44	5.34	1.70	T	1.68	9.37	1.65	7.71	5.87	0.87	0.43	3.58	38.64
1982	1.86	2.09	2.99	1.87	5.90	8.34	10.49	7.20	10.76	2.17	0.85	1.29	55.81
1983	1.25	7.35	7.59	2.76	4.10	7.17	6.37	8.89	6.61	1.74	2.33	4.71	60.87
1984	1.62	3.32	1.31	1.51	3.19	3.24	7.15	5.68	4.21	0.29	0.72	0.07	32.31
1985	2.06	2.07	1.80	0.96	0.22	6.43	6.48	8.65	9.04	4.77	0.99	1.13	44.60
1986	2.37	1.49	4.27	0.95	2.46	5.00	6.24	5.46	3.87	6.21	1.33	1.95	41.60
1987	3.29	1.50	12.01	0.39	2.86	3.39	6.06	8.50	4.76	1.46	4.36	0.50	49.08
1988	2.76	1.44	4.09	1.83	1.27	5.19	3.40	11.09	13.56	0.09	5.97	1.64	52.33
1989	1.54	0.41	1.79	0.71	0.24	7.41	8.86	7.90	6.11	1.89	2.05	4.72	43.63
1990	0.53	4.58	1.71	1.47	1.76	5.16	10.01	3.27	2.42	2.63	0.66	0.19	34.39
1991	2.41	0.41	4.73	1.54	6.88	3.78	9.92	7.35	3.43	0.78	1.26	0.67	43.16
1992	1.47	3.67	0.95	2.17	0.10	7.03	2.80	8.22	2.95	2.20	2.43	0.99	34.98
1993	3.60	2.32	3.93	2.45	1.74	3.18	2.92	5.06	6.60	4.23	0.22	1.28	37.53
1994	3.68	0.43	0.66	3.43	0.07	5.98	11.31	8.37	8.20	3.29	0.24	1.57	47.23
1995	3.51	2.02	2.02	1.48	1.67	9.79	10.12	13.75	2.80	4.71	1.24	1.02	54.13
1996	5.42	3.04	4.65	4.20	1.45	8.96	2.72	7.39	5.44	3.12	.91	2.11	49.41
1997	0.95	0.66	1.28	10.71	1.70	1.46	6.73	8.20	12.84	4.20	3.41	15.57	67.71
1998	4.64	10.82	5.16	0.41	1.96	2.65	12.95	6.55	8.42	0.47	0.40	0.92	55.35
1999	3.04	0.29	0.72	0.40	1.52	4.65	3.65	8.35	6.05	2.85	1.78	1.02	34.32
2000	1.95	0.30	0.41	0.43	0.02	4.53	8.14	5.44	5.14	0.06	2.04	1.39	29.85
2001	1.03	1.18	6.73	0.02	T	6.81	6.01	2.83	11.76	2.39	0.10	0.89	39.75
2002	2.49	2.84	0.63	1.84	1.07	11.57	7.33	8.82	7.51	2.11	1.76	14.10	62.07
2003	0.11	2.90	3.94	4.19	2.50	13.19	3.63	14.90	4.01	0.46	0.86	1.30	51.99
2004	3.73	4.02	1.11	2.04	1.44	9.01	10.19	14.03	9.77	1.70	0.73	1.54	59.31
2005	0.57	1.80	3.32	2.76	3.61	12.26	3.38	4.09	0.79	4.20	0.90	1.27	38.95
2006	0.74	9.09	T	1.03	1.43	8.93	9.46	6.78	12.40	0.87	2.76	3.17	56.66
2007	1.43	1.77	0.92	1.92	0.35	8.70	7.78	10.73	4.87	2.11	0.11	1.30	41.99
2008	2.54	4.28	3.67	2.64	0.73	7.54	9.84	4.86	2.27	3.52	0.65	1.23	43.77
2009	2.38	0.71	0.98	1.22	9.11	5.10	10.23	3.52	5.24	2.24	2.82	2.32	45.87
2010	3.42	1.99	5.88	3.47	1.84	4.63	6.08	9.29	1.13	T	2.06	0.55	40.34
POR= 78 YRS	2.17	2.95	3.10	2.05	2.68	6.58	7.59	7.85	6.32	2.40	1.56	2.23	47.48

WBAN : 12842

**AVERAGE TEMPERATURE (°F) 2010 TAMPA (KTPA)**

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1981	50.4	61.4	62.8	72.4	75.4	81.5	82.5	81.7	78.6	74.5	64.4	59.2	70.4
1982	59.8	67.9	68.1	71.4	74.4	81.5	82.1	82.1	80.2	74.3	70.8	67.6	73.4
1983	58.9	60.3	63.3	68.6	76.8	80.9	82.2	82.2	79.4	75.8	65.9	59.9	71.2
1984	58.0	62.6	66.0	71.0	78.0	80.4	81.5	82.4	79.9	75.7	64.9	67.3	72.3
1985	55.9	63.6	69.4	72.5	79.8	83.7	82.4	83.1	80.5	79.2	73.6	59.0	73.6
1986	59.3	65.0	65.4	69.1	77.4	81.8	83.0	82.6	82.3	76.8	76.3	66.5	73.8
1987	59.2	63.2	66.4	66.4	77.8	82.7	83.1	83.7	81.4	71.3	68.9	64.3	72.4
1988	58.6	59.1	65.6	70.6	75.3	81.0	82.7	82.9	82.0	73.5	70.8	63.0	72.1
1989	67.1	64.9	69.8	72.0	78.4	82.4	83.3	83.0	82.4	75.4	68.9	56.2	73.7
1990	66.1	69.2	69.7	72.1	80.5	82.7	82.5	83.9	82.8	77.6	70.2	66.9	75.4
1991	66.7	64.2	68.4	76.8	81.2	81.3	82.3	83.2	81.9	75.3	65.8	64.6	74.3
1992	59.8	63.6	64.8	69.4	74.3	82.1	83.8	82.4	82.0	72.7	70.0	64.3	72.4
1993	67.0	60.2	64.3	67.2	76.1	81.8	83.8	83.7	81.9	75.8	69.1	59.5	72.5
1994	60.6	66.9	68.0	75.4	78.2	82.6	81.7	81.7	80.2	76.5	72.4	65.1	74.1
1995	58.8	61.4	68.7	73.5	81.8	80.2	83.0	83.3	82.0	77.8	65.2	61.0	73.1
1996	59.2	60.0	62.4	70.4	79.3	80.9	83.7	83.2	82.0	75.8	68.1	63.5	72.4
1997	62.6	68.6	73.9	71.6	77.7	81.8	82.7	82.8	81.7	74.7	66.8	61.3	73.9
1998	63.6	62.5	64.6	72.3	79.2	85.6	83.5	83.6	81.7	77.5	72.5	68.0	74.6
1999	63.8	64.2	65.1	74.3	77.8	81.2	83.6	83.7	80.9	76.3	68.9	63.2	73.6
2000	61.3	63.7	71.0	71.6	80.3	82.4	82.1	82.8	82.3	74.3	66.7	60.3	73.2
2001	55.2	68.2	65.7	72.7	77.4	82.2	82.1	83.2	79.3	75.1	71.3	68.8	73.4
2002	63.1	62.4	69.7	76.3	79.9	81.4	82.3	82.4	82.8	78.9	65.7	60.1	73.8
2003	54.8	63.3	71.7	72.1	80.0	81.7	82.7	81.9	81.3	76.9	71.4	59.8	73.1
2004	59.6	63.0	68.0	70.2	78.9	83.3	82.7	82.3	81.2	76.8	70.2	61.3	73.1
2005	62.6	64.0	65.1	69.0	76.6	80.7	84.2	84.8	82.9	76.0	70.4	59.3	73.0
2006	62.6	60.6	67.3	74.2	77.3	81.7	82.7	83.3	82.1	76.1	67.9	69.5	73.8
2007	64.9	60.8	69.5	71.0	78.0	81.5	83.7	84.9	82.6	79.8	68.7	68.4	74.5
2008	62.1	66.0	67.7	72.5	79.8	83.3	81.9	82.2	81.9	75.1	65.3	66.1	73.7
2009	61.2	61.8	69.3	73.8	78.7	83.0	83.2	83.9	82.6	78.0	68.9	63.2	74.0
2010	54.7	55.0	61.7	72.8	81.0	84.8	84.3	84.4	83.2	76.2	69.3	53.2	71.7
POR= 78 YRS	60.7	61.1	66.0	71.4	77.7	80.9	82.4	82.6	80.6	75.3	67.3	62.3	72.4

**HEATING DEGREE DAYS (base 65°F) 2010 TAMPA (KTPA)**

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1981-82	0	0	0	0	83	223	209	24	53	8	0	0	600
1982-83	0	0	0	12	18	95	218	148	103	20	0	0	614
1983-84	0	0	0	0	57	214	252	115	68	5	0	0	711
1984-85	0	0	0	0	87	61	306	119	17	5	0	0	595
1985-86	0	0	0	0	9	238	185	78	105	7	0	0	622
1986-87	0	0	0	0	0	53	202	88	42	64	0	0	449
1987-88	0	0	0	4	46	107	221	195	85	14	0	0	672
1988-89	0	0	0	0	9	127	41	116	45	7	0	0	345
1989-90	0	0	0	17	27	285	70	32	13	5	0	0	449
1990-91	0	0	0	7	11	70	72	84	46	0	0	0	290
1991-92	0	0	0	0	93	94	179	90	69	32	5	0	562
1992-93	0	0	0	0	57	83	58	137	84	24	0	0	443
1993-94	0	0	0	6	44	185	158	62	50	5	0	0	510
1994-95	0	0	0	0	7	81	200	151	23	1	0	0	463
1995-96	0	0	0	0	83	180	198	188	152	16	0	0	817
1996-97	0	0	0	3	36	101	132	39	0	7	0	0	318
1997-98	0	0	0	7	36	163	108	103	113	4	0	0	534
1998-99	0	0	0	0	4	56	118	97	44	6	5	0	330
1999-00	0	0	0	5	20	110	154	99	3	10	0	0	401
2000-01	0	0	0	3	61	212	318	48	60	8	0	0	710
2001-02	0	0	0	9	0	65	165	100	43	0	0	0	382
2002-03	0	0	0	0	84	174	311	87	11	16	0	0	683
2003-04	0	0	0	0	21	175	195	110	29	15	0	0	545
2004-05	0	0	0	0	7	160	131	71	93	13	0	0	475
2005-06	0	0	0	13	18	176	130	145	41	0	0	0	523
2006-07	0	0	0	4	55	40	95	147	34	27	0	0	402
2007-08	0	0	0	0	24	42	141	63	34	13	0	0	317
2008-09	0	0	0	22	84	67	162	126	38	9	0	0	508
2009-10	0	0	0	11	29	125	332	280	118	0	0	0	895
2010-	0	0	0	0	24	363							

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**COOLING DEGREE DAYS (base 65°F) 2010 TAMPA (KTPA)**

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1981	0	32	43	230	331	501	552	525	414	303	71	49	3051
1982	56	114	156	208	299	499	537	537	467	311	197	182	3563
1983	36	24	57	137	369	487	540	541	439	342	91	64	3127
1984	42	52	104	190	410	468	517	546	454	337	92	135	3347
1985	30	88	163	237	464	569	547	566	475	445	275	58	3917
1986	15	85	123	139	391	510	565	551	526	374	348	107	3734
1987	27	43	91	114	405	538	567	583	497	207	169	91	3332
1988	30	32	110	188	326	489	554	562	517	271	191	74	3344
1989	112	120	202	224	425	528	575	564	529	344	151	18	3792
1990	107	154	164	225	487	537	549	592	541	406	176	139	4077
1991	131	68	158	361	509	498	543	572	515	326	126	88	3895
1992	25	55	70	170	301	519	589	544	518	248	212	72	3323
1993	126	12	72	95	352	511	593	587	513	347	174	21	3403
1994	32	118	148	321	415	535	524	524	461	364	233	91	3766
1995	15	59	145	264	526	464	561	574	518	405	95	63	3689
1996	27	50	76	182	450	482	589	570	516	348	135	63	3488
1997	62	145	283	213	397	510	556	559	508	314	97	55	3699
1998	75	41	107	229	446	623	582	583	506	394	236	160	3982
1999	85	84	52	294	409	492	583	589	481	363	144	62	3638
2000	48	68	197	213	482	529	537	558	524	300	121	71	3648
2001	22	141	92	245	393	522	536	571	434	326	196	187	3665
2002	114	34	192	347	466	499	543	544	541	437	114	28	3859
2003	2	48	226	236	473	505	553	532	495	375	219	19	3683
2004	33	58	130	179	440	553	558	542	493	371	169	53	3579
2005	61	47	103	143	366	479	601	619	547	362	186	7	3521
2006	63	30	120	280	388	508	556	575	519	357	150	188	3734
2007	99	35	179	214	409	503	588	624	539	466	142	155	3953
2008	60	99	125	243	463	555	531	540	512	342	101	107	3678
2009	48	40	175	279	432	548	571	593	533	425	155	77	3876
2010	20	7	23	239	502	601	605	607	555	353	160	4	3676

**SNOWFALL (inches) 2010 TAMPA (KTPA)**

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
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	T	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	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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	T	0.0	0.0	T	0.0	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	T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T
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	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	0.0	0.0	0.0	0.0
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	T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T
2007-08	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
2008-09	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
2009-10	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
2010-	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= 78 YRS	T	T	0.0	0.0	0.0	T	T	0.0	0.0	T	0.0	0.0	T

WBAN : 12842

**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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# 2010 TAMPA FLORIDA (KTPA)

Tampa is on west central coast of the Florida Peninsula. Very near the Gulf of Mexico at the upper end of Tampa Bay, land and sea breezes modify the subtropical climate. Major rivers flowing into the area are the Hillsborough, the Alafia, and the Little Manatee.

Winters are mild. Summers are long, rather warm, and humid. Low temperatures are about 50 degrees in the winter and 70 degrees during the summer. Afternoon highs range from the low 70s in the winter to around 90 degrees from June through September. Invasions of cold northern air produce an occasional cool winter morning. Freezing temperatures occur on one or two mornings per year during December, January, and February. In some years no freezing temperatures occur. Temperatures rarely fail to recover to the 60s on the cooler winter days. Temperatures above the low 90s are uncommon because of the afternoon sea breezes and thunderstorms. An outstanding feature of the Tampa climate is the summer thunderstorm season. Most of the thunderstorms occur in the late afternoon hours from June through September. The resulting sudden drop in temperature from about 90 degrees to around 70 degrees makes for a pleasant change. Between a dry spring and a dry fall, some 30 inches of rain, about 60 percent of the annual total, falls during the summer months. Snowfall is very rare. Measurable snows under 1/2 inch have occurred only a few times in the last one hundred years.

A large part of the generally flat sandy land near the coast has an elevation of under 15 feet above sea level. This does make the area vulnerable to tidal surges. Tropical storms threaten the area on a few occasions most years. The greatest risk of hurricanes has been during the months of June and October. Many hurricanes, by replenishing the soil moisture and raising the water table, do far more good than harm. The heaviest rains in a 24-hour period, around 12 inches, have been associated with hurricanes.

Fittingly named the Suncoast, the sun shines more than 65 percent of the possible, with the sunniest months being April and May. Afternoon humidities are usually 60 percent or higher in the summer months, but range from 50 to 60 percent the remainder of the year.

Night ground fogs occur frequently during the cooler winter months. Prevailing winds are easterly, but westerly afternoon and early evening sea breezes occur most months of the year. Winds in excess of 25 mph are not common and usually occur only with thunderstorms or tropical disturbances.

Based on the 1951-1980 period, the average first occurrence of 32 degrees Fahrenheit in the fall is December 26 and the average last occurrence in the spring is February 3.

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