

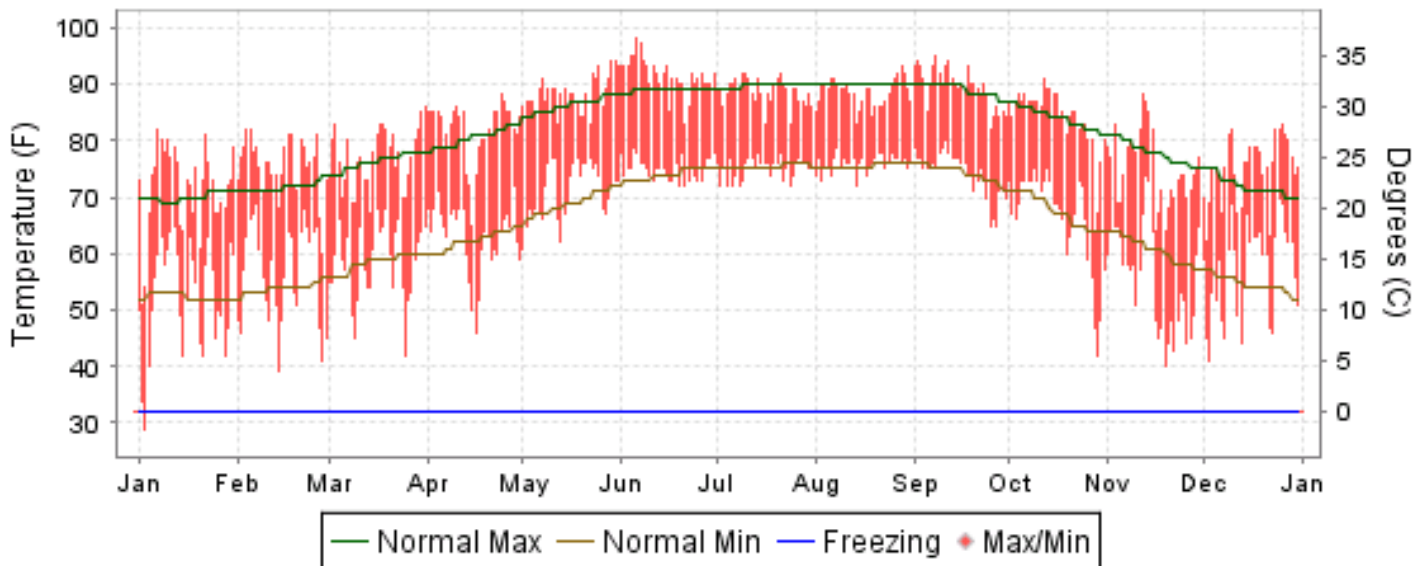


# 2008 LOCAL CLIMATOLOGICAL DATA ANNUAL SUMMARY WITH COMPARATIVE DATA

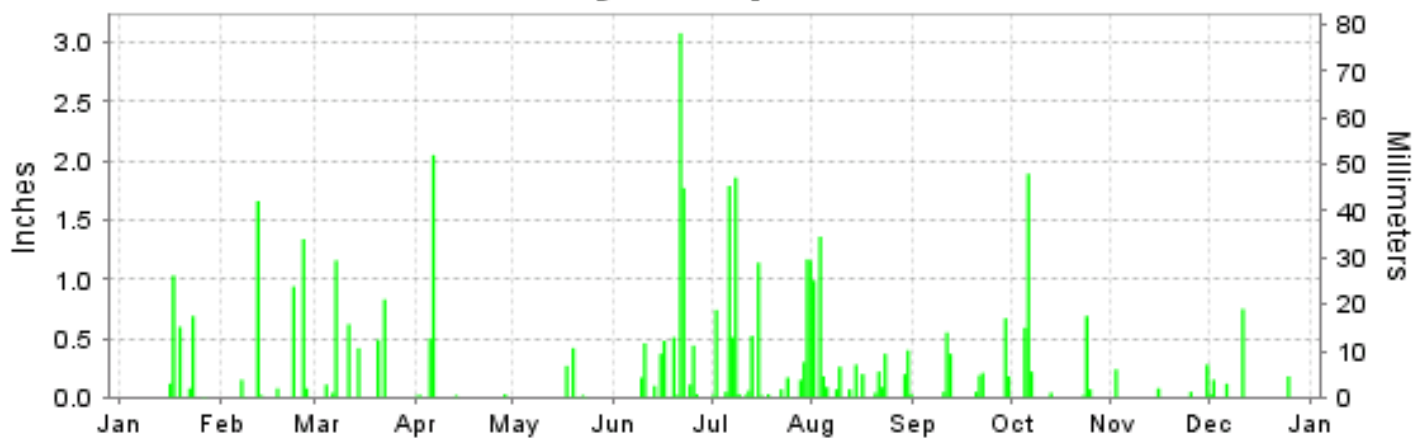
ISSN 0198-1307

## TAMPA, FLORIDA (KTPA)

### Daily Max/Min Temperature



### Daily Precipitation



### Daily Station Pressure



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ENVIRONMENTAL SATELLITE, DATA  
AND INFORMATION SERVICE

NATIONAL  
CLIMATIC DATA CENTER  
ASHEVILLE, NORTH CAROLINA

*Thomas R. Karl*  
DIRECTOR  
NATIONAL CLIMATIC DATA CENTER

# METEOROLOGICAL DATA FOR 2008

## 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          | 71.6  | 75.5  | 76.9  | 81.9  | 88.3  | 91.5  | 88.6  | 88.4  | 89.5  | 83.8  | 75.1  | 75.1   | 82.2      |    |
|                          | HIGHEST DAILY MAXIMUM       | 82    | 82    | 86    | 88    | 94    | 98    | 92    | 93    | 95    | 91    | 88    | 83     | 98        |    |
|                          | DATE OF OCCURRENCE          | 07    | 05+   | 31    | 24    | 30+   | 06    | 21+   | 28    | 08    | 12    | 12    | 26     | JUN 06    |    |
|                          | MEAN DAILY MINIMUM          | 52.5  | 56.5  | 58.5  | 63.0  | 71.2  | 75.0  | 75.1  | 76.0  | 74.2  | 66.3  | 55.5  | 57.1   | 65.1      |    |
|                          | LOWEST DAILY MINIMUM        | 29    | 39    | 42    | 46    | 61    | 72    | 72    | 72    | 65    | 42    | 40    | 41     | 29        |    |
|                          | DATE OF OCCURRENCE          | 03    | 14    | 25    | 16    | 01    | 21+   | 24+   | 14    | 27+   | 29    | 19    | 03     | JAN 03    |    |
|                          | AVERAGE DRY BULB            | 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      |    |
|                          | MEAN WET BULB               | 55.9  | 59.2  | 60.3  | 63.6  | 69.8  | 74.1  | 74.9  | 75.7  | 73.3  | 66.2  | 57.3  | 59.8   | 65.8      |    |
|                          | MEAN DEW POINT              | 50.1  | 53.7  | 54.5  | 57.6  | 64.5  | 70.3  | 71.9  | 73.0  | 69.8  | 61.0  | 51.4  | 55.1   | 61.1      |    |
|                          | NUMBER OF DAYS WITH:        |       |       |       |       |       |       |       |       |       |       |       |        |           |    |
|                          | MAXIMUM >= 90°              | 0     | 0     | 0     | 0     | 8     | 27    | 11    | 11    | 18    | 1     | 0     | 0      | 0         | 76 |
| 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         | 141   | 63    | 34    | 13    | 0     | 0     | 0     | 0     | 0     | 22    | 84    | 67     | 424       |    |
|                          | COOLING DEGREE DAYS         | 60    | 99    | 125   | 243   | 463   | 555   | 531   | 540   | 512   | 342   | 101   | 107    | 3678      |    |
| RH                       | MEAN (PERCENT)              | 68    | 68    | 66    | 63    | 64    | 69    | 74    | 76    | 71    | 66    | 66    | 70     | 68        |    |
|                          | HOUR 01 LST                 | 77    | 78    | 75    | 74    | 76    | 79    | 82    | 84    | 83    | 78    | 75    | 80     | 78        |    |
|                          | HOUR 07 LST                 | 78    | 77    | 75    | 69    | 69    | 74    | 77    | 80    | 80    | 74    | 75    | 82     | 76        |    |
|                          | HOUR 13 LST                 | 52    | 53    | 53    | 49    | 47    | 56    | 63    | 66    | 53    | 49    | 50    | 54     | 54        |    |
|                          | HOUR 19 LST                 | 68    | 68    | 65    | 62    | 63    | 70    | 75    | 76    | 69    | 67    | 66    | 69     | 68        |    |
| S                        | PERCENT POSSIBLE SUNSHINE   | 84    | 93    |       | 87    | 86    |       | 84    |       |       | 89    | 81    |        |           |    |
| W/O                      | NUMBER OF DAYS WITH:        |       |       |       |       |       |       |       |       |       |       |       |        |           |    |
|                          | HEAVY FOG(VISBY <= 1/4 MI)  | 3     | 1     | 0     | 1     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 3      | 8         |    |
|                          | THUNDERSTORMS               | 1     | 3     | 3     | 0     | 1     | 16    | 21    | 13    | 1     | 1     | 0     | 1      | 61        |    |
| 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.)   | 30.16 | 30.09 | 30.09 | 30.03 | 29.96 | 30.14 | 30.03 | 29.91 | 29.94 | 30.05 | 30.08 | 30.16  | 30.05     |    |
|                          | MEAN SEA-LEVEL PRESS. (IN.) | 30.17 | 30.11 | 30.10 | 30.04 | 29.97 | 30.14 | 30.04 | 29.92 | 29.96 | 30.07 | 30.10 | 30.18  | 30.07     |    |
| WINDS                    | RESULTANT SPEED (MPH)       | 2.4   | 0.7   | 0.3   | 1.5   | 3.2   | 1.5   | 2.0   | 2.5   | 3.0   | 4.4   | 3.0   | 0.9    | 0.9       |    |
|                          | RES. DIR. (TENS OF DEGS.)   | 03    | 28    | 33    | 35    | 25    | 24    | 24    | 27    | 04    | 04    | 02    | 01     | 35        |    |
|                          | MEAN SPEED (MPH)            | 7.7   | 6.8   | 7.7   | 7.4   | 7.7   | 5.6   | 4.7   | 6.9   | 7.0   | 7.5   | 6.9   | 5.9    | 6.8       |    |
|                          | PREVAIL.DIR.(TENS OF DEGS.) | 01    | 19    | 05    | 05    | 24    | 27    | 22    | 24    | 05    | 05    | 04    | 01     | 05        |    |
|                          | MAXIMUM 2-MINUTE WIND       |       |       |       |       |       |       |       |       |       |       |       |        |           |    |
|                          | SPEED (MPH)                 | 25    | 28    | 30    | 26    | 24    | 30    | 28    | 25    | 21    | 21    | 23    | 29     | 30        |    |
|                          | DIR. (TENS OF DEGS.)        | 35    | 26    | 31    | 31    | 28    | 21    | 08    | 27    | 03    | 01    | 35    | 29     | 21        |    |
|                          | DATE OF OCCURRENCE          | 20    | 26    | 08    | 05    | 12    | 26    | 06    | 08    | 23    | 28    | 16    | 11     | JUN 26    |    |
|                          | MAXIMUM 3-SECOND WIND:      |       |       |       |       |       |       |       |       |       |       |       |        |           |    |
|                          | SPEED (MPH)                 | 33    | 36    | 39    | 31    | 30    | 31    | 41    | 35    | 31    | 29    | 29    | 37     | 41        |    |
| DIR. (TENS OF DEGS.)     | 26                          | 27    | 32    | 31    | 28    | 02    | 10    | 28    | 14    | 06    | 34    | 29    | 10     |           |    |
| DATE OF OCCURRENCE       | 19                          | 26    | 08    | 05    | 12    | 13    | 06    | 12    | 11    | 13    | 16    | 11    | JUL 06 |           |    |
| PRECIPITATION            | WATER EQUIVALENT:           |       |       |       |       |       |       |       |       |       |       |       |        |           |    |
|                          | TOTAL (IN.)                 | 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     |    |
|                          | GREATEST 24-HOUR (IN.)      | 1.15  | 1.66  | 1.16  | 2.24  | 0.43  | 3.53  | 2.26  | 1.54  | 0.85  | 2.11  | 0.28  | 0.75   | 3.53      |    |
|                          | DATE OF OCCURRENCE          | 16-17 | 12    | 07-08 | 05-06 | 19-20 | 21-22 | 06-07 | 03-04 | 29-30 | 06-07 | 30    | 11     | JUN 21-22 |    |
|                          | NUMBER OF DAYS WITH:        |       |       |       |       |       |       |       |       |       |       |       |        |           |    |
|                          | PRECIPITATION 0.01          | 7     | 8     | 7     | 6     | 5     | 12    | 22    | 17    | 8     | 7     | 4     | 5      | 108       |    |
| PRECIPITATION 0.10       | 4                           | 4     | 6     | 2     | 2     | 10    | 11    | 10    | 6     | 4     | 2     | 4     | 65     |           |    |
| PRECIPITATION 1.00       | 1                           | 2     | 1     | 1     | 0     | 2     | 5     | 1     | 0     | 1     | 0     | 0     | 14     |           |    |
| 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          |       |       |       |       |       |       | 06    |       |       |       |       |        |           |    |
|                          | 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                                 | 76  | 70.6  | 70.9  | 75.6  | 81.1  | 87.2  | 89.0  | 90.1  | 90.3  | 88.4  | 84.1  | 76.9  | 72.1  | 81.4     |
|  | HIGHEST DAILY MAXIMUM                              | 62  | 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.                              | 76  | 80.9  | 82.1  | 85.2  | 88.7  | 93.0  | 94.6  | 94.5  | 94.3  | 93.4  | 90.4  | 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                                 | 76  | 51.0  | 51.5  | 56.4  | 61.5  | 68.0  | 72.5  | 74.6  | 74.7  | 72.8  | 66.3  | 57.7  | 52.6  | 63.3     |
|  | LOWEST DAILY MINIMUM                               | 62  | 21    | 24    | 29    | 40    | 49    | 53    | 63    | 67    | 67    | 57    | 40    | 23    | 18       |
|  | YEAR OF OCCURRENCE                                 |     | 1985  | 1958  | 1980  | 1987  | 1992  | 1984  | 1970  | 1973  | 1981  | 1964  | 1970  | 1962  | DEC 1962 |
|  | MEAN OF EXTREME MINS.                              | 76  | 32.7  | 36.2  | 41.3  | 48.6  | 58.2  | 66.8  | 70.5  | 70.9  | 67.5  | 52.7  | 41.9  | 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                                      | 76  | 60.8  | 61.2  | 66.0  | 71.3  | 77.6  | 80.8  | 82.4  | 82.5  | 80.6  | 75.2  | 67.3  | 62.4  | 72.3     |
|  | MEAN WET BULB                                      | 25  | 55.6  | 57.3  | 60.4  | 63.8  | 69.5  | 74.2  | 75.7  | 76.0  | 74.4  | 68.6  | 62.5  | 57.6  | 66.3     |
|  | MEAN DEW POINT                                     | 25  | 52.7  | 54.2  | 57.3  | 60.4  | 66.6  | 72.2  | 73.9  | 74.3  | 72.6  | 66.3  | 59.9  | 54.7  | 63.8     |
|  | NORMAL NO. DAYS WITH:<br>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                          | 55  | 65    | 66    | 71    | 75    | 75    | 67    | 62    | 62    | 62    | 66    | 64    | 61    | 66       |
| W/O                                      | MEAN NO. DAYS WITH:<br>HEAVY FOG (VISIB <= 1/4 MI) | 45  | 3.8   | 2.5   | 1.8   | 0.7   | 0.2   | 0.3   | 0.2   | 0.2   | 0.2   | 0.6   | 1.8   | 2.7   | 15.0     |
|  | THUNDERSTORMS                                      | 61  | 1.0   | 1.7   | 2.4   | 2.4   | 4.8   | 13.5  | 20.1  | 19.4  | 10.6  | 2.7   | 1.0   | 1.1   | 80.7     |
| CLOUDNESS                                | MEAN:<br>SUNRISE-SUNSET (OKTAS)                    |     |       |       |       |       |       |       |       |       |       |       |       |       |          |
|  | MIDNIGHT-MIDNIGHT (OKTAS)                          |     |       |       |       |       |       |       |       |       |       |       |       |       |          |
|  | MEAN NO. DAYS WITH:<br>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)                         | 25  | 30.13 | 30.10 | 30.06 | 30.02 | 30.00 | 30.01 | 30.04 | 30.00 | 29.96 | 30.00 | 30.07 | 30.12 | 30.04    |
|  | MEAN SEA-LEVEL PRES. (IN)                          | 25  | 30.14 | 30.11 | 30.07 | 30.03 | 30.01 | 30.02 | 30.05 | 30.01 | 29.97 | 30.02 | 30.08 | 30.13 | 30.05    |
| WINDS                                    | MEAN SPEED (MPH)                                   | 25  | 7.4   | 7.6   | 8.2   | 7.9   | 7.4   | 6.7   | 5.8   | 5.7   | 6.5   | 6.9   | 7.2   | 6.9   | 7.0      |
|  | PREVAIL. DIR. (TENS OF DEGS)                       | 40  | 06    | 06    | 09    | 09    | 28    | 28    | 28    | 09    | 06    | 06    | 04    | 06    | 06       |
|  | MAXIMUM 2-MINUTE:<br>SPEED (MPH)                   | 13  | 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<br>SPEED (MPH)                    | 13  | 51    | 44    | 40    | 49    | 47    | 47    | 47    | 43    | 54    | 53    | 41    | 52    | 54       |
|  | DIR. (TENS OF DEGS)                                |     | 32    | 09    | 24    | 28    | 34    | 13    | 20    | 12    | 35    | 21    | 17    | 31    | 35       |
|  | YEAR OF OCCURRENCE                                 |     | 1999  | 1998  | 2005  | 1997  | 1997  | 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)                               | 62  | 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)                               | 62  | T     | 0.21  | T     | T     | 0.02  | 1.46  | 1.65  | 2.35  | .79   | 0.06  | T     | 0.07  | T        |
|  | YEAR OF OCCURRENCE                                 |     | 1950  | 1950  | 2006  | 1981  | 2001  | 1997  | 1981  | 1952  | 2005  | 2000  | 1960  | 1984  | MAR 2006 |
|  | MAXIMUM IN 24 HOURS (IN)                           | 62  | 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:<br>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.*   | 0.0      |
|  | MAXIMUM MONTHLY (IN)                               | 62  | 0.2   | T     | 0.0   | T     | 0.0   | 0.0   | T     | T     | 0.0   | 0.0   | 0.0   | T     | 0.2      |
|  | YEAR OF OCCURRENCE                                 |     | 1977  | 1951  | 2006  | 1997  |       |       | 1998  | 2006  |       |       |       | 1989  | JAN 1977 |
|  | MAXIMUM IN 24 HOURS (IN)                           | 62  | 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)                            | 60  | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0        |
| YEAR OF OCCURRENCE                       |  |     |       |       |       |       |       |       |       |       |       |       |       |       |          |
| NORMAL NO. DAYS WITH:<br>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) 2008 TAMPA (KTPA)**

| YEAR           | JAN  | FEB   | MAR   | APR   | MAY   | JUN   | JUL   | AUG   | SEP   | OCT  | NOV  | DEC   | ANNUAL |
|----------------|------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|-------|--------|
| 1979           | 5.72 | 2.87  | 2.43  | 0.55  | 17.64 | 2.07  | 5.93  | 12.76 | 13.98 | 0.16 | 0.83 | 1.52  | 66.46  |
| 1980           | 1.72 | 2.01  | 3.09  | 4.38  | 3.94  | 3.81  | 5.66  | 7.62  | 4.05  | 1.27 | 2.68 | 0.37  | 40.60  |
| 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  |
| POR=<br>76 YRS | 2.15 | 2.99  | 3.09  | 2.04  | 2.61  | 6.63  | 7.57  | 7.89  | 6.41  | 2.43 | 1.54 | 2.25  | 47.60  |

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**AVERAGE TEMPERATURE (°F) 2008 TAMPA (KTPA)**

| YEAR           | JAN  | FEB  | MAR  | APR  | MAY  | JUN  | JUL  | AUG  | SEP  | OCT  | NOV  | DEC  | ANNUAL |
|----------------|------|------|------|------|------|------|------|------|------|------|------|------|--------|
| 1979           | 57.8 | 59.3 | 65.4 | 74.2 | 75.9 | 80.8 | 83.9 | 82.2 | 81.9 | 75.2 | 68.7 | 63.0 | 72.4   |
| 1980           | 62.0 | 56.6 | 68.1 | 70.1 | 77.2 | 81.6 | 84.0 | 83.0 | 81.3 | 74.0 | 66.4 | 57.5 | 71.8   |
| 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   |
| POR=<br>76 YRS | 60.8 | 61.2 | 66.0 | 71.3 | 77.6 | 80.8 | 82.4 | 82.5 | 80.6 | 75.2 | 67.3 | 62.4 | 72.3   |

**HEATING DEGREE DAYS (base 65°F) 2008 TAMPA (KTPA)**

| YEAR    | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | TOTAL |
|---------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|
| 1979-80 | 0   | 0   | 0   | 0   | 47  | 112 | 136 | 262 | 64  | 8   | 0   | 0   | 629   |
| 1980-81 | 0   | 0   | 0   | 1   | 65  | 233 | 447 | 127 | 103 | 2   | 0   | 0   | 978   |
| 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-   | 0   | 0   | 0   | 22  | 84  | 67  |     |     |     |     |     |     |       |

WBAN : 12842

**COOLING DEGREE DAYS (base 65°F) 2008 TAMPA (KTPA)**

| YEAR | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | TOTAL |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|
| 1979 | 28  | 36  | 73  | 283 | 344 | 482 | 592 | 543 | 515 | 322 | 164 | 55  | 3437  |
| 1980 | 45  | 22  | 164 | 165 | 386 | 506 | 598 | 564 | 493 | 284 | 115 | 7   | 3349  |
| 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  |

**SNOWFALL (inches) 2008 TAMPA (KTPA)**

| YEAR           | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | TOTAL |
|----------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|
| 1979-80        | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | T   | 0.0 | 0.0 | 0.0 | T     |
| 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 | 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-          | 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=<br>76 YRS | T   | T   | 0.0 | 0.0 | 0.0 | T   | T   | 0.0 | T   | T   | 0.0 | 0.0 | T     |

WBAN : 12842

**REFERENCE NOTES :**

|   |  |
|---|--|
| <p>PAGE 1:<br/>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:<br/>H/C INDICATES HEATING AND COOLING DEGREE DAYS.<br/>RH INDICATES RELATIVE HUMIDITY<br/>W/O INDICATES WEATHER AND OBSTRUCTIONS<br/>S INDICATES SUNSHINE.<br/>PR INDICATES PRESSURE.<br/>CLOUDINESS ON PAGE 3 IS THE SUM OF THE CEILOMETER AND SATELLITE DATA NOT TO EXCEED EIGHT EIGHTHS(OKTAS).</p> <p>GENERAL:<br/>T INDICATES TRACE PRECIPITATION, AN AMOUNT GREATER THAN ZERO BUT LESS THAN THE LOWEST REPORTABLE VALUE.<br/>+ INDICATES THE VALUE ALSO OCCURS ON EARLIER DATES.<br/>BLANK ENTRIES DENOTE MISSING OR UNREPORTED DATA.<br/>NORMALS ARE 30-YEAR AVERAGES (1971 - 2000).<br/>ASOS INDICATES AUTOMATED SURFACE OBSERVING SYSTEM.<br/>PM INDICATES THE LAST DAY OF THE PREVIOUS MONTH.<br/>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.<br/>WHEN THE POR FOR A NORMAL IS LESS THAN 30 YEARS, THE NORMAL IS PROVISIONAL AND IS BASED ON THE NUMBER OF YEARS INDICATED.<br/>0.* OR * INDICATES THE VALUE OR MEAN-DAYS-WITH IS BETWEEN 0.00 AND 0.05.<br/>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.<br/>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.</p> | <p>GENERAL CONTINUED:<br/>CLEAR INDICATES 0 - 2 OKTAS, PARTLY CLOUDY INDICATES 3 - 6 OKTAS, AND CLOUDY INDICATES 7 OR 8 OKTAS.<br/>WHEN AT LEAST ONE OF THE ELEMENTS (CEILOMETER OR SATELLITE) IS MISSING, THE DAILY CLOUDINESS IS NOT COMPUTED.<br/>WIND DIRECTION IS RECORDED IN TENS OF DEGREES (2 DIGITS) CLOCKWISE FROM TRUE NORTH. "00" INDICATES CALM. "36" INDICATES TRUE NORTH.<br/>RESULTANT WIND IS THE VECTOR AVERAGE OF THE SPEED AND DIRECTION.<br/>AVERAGE TEMPERATURE IS THE SUM OF THE MEAN DAILY MAXIMUM AND MINIMUM TEMPERATURE DIVIDED BY 2.<br/>SNOWFALL DATA COMPRISE ALL FORMS OF FROZEN PRECIPITATION, INCLUDING HAIL.<br/>A HEATING (COOLING) DEGREE DAY IS THE DIFFERENCE BETWEEN THE AVERAGE DAILY TEMPERATURE AND 65 F.<br/>DRY BULB IS THE TEMPERATURE OF THE AMBIENT AIR.<br/>DEW POINT IS THE TEMPERATURE TO WHICH THE AIR MUST BE COOLED TO ACHIEVE 100 PERCENT RELATIVE HUMIDITY.<br/>WET BULB IS THE TEMPERATURE THE AIR WOULD HAVE IF THE MOISTURE CONTENT WAS INCREASED TO 100 PERCENT RELATIVE HUMIDITY.</p> <p>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.</p> <p><b>NOTE:</b><br/>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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# 2008 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.

# Station Location

TAMPA

| LOCATION  | Occupied From | Occupied To | Airline Distances and Directions from previous Location | Latitude |         | Longitude               |                 | ELEVATION ABOVE      |              |                 |                           |                     |                                 |   | REMARKS |
|---|---------------|-------------|---|----------|---------|-------------------------|-----------------|----------------------|--------------|-----------------|---------------------------|---------------------|---------------------------------|---|---------|
|   |               |             |   | NORTH    | WEST    | SEA LEVEL               | GROUND          |                      |              |                 |                           |                     | AUTOMATIC OBSERVING EQUIPMENT * |   |         |
|   |               |             |   |          |         | GROUND TEMPERATURE SITE | WIND INSTRUMENT | EXTREME THERMOMETERS | PSYCHROMETER | SUNSHINE SWITCH | TIPPING BUCKET RAIN GAUGE | WEIGHING RAIN GAUGE |                                 | 8 INCH RAIN GAUGE   |         |
| *NOTE:  |               |             |   |          |         |                         |                 |                      |              |                 |                           |                     |                                 |   |         |
| AIRPORT   |               |             |   |          |         |                         |                 |                      |              |                 |                           |                     |                                 |   |         |
| 2222 N. Westshore Blvd. Tampa International Airport | 10/1/75       | 12/7/81     | 1/2 mi. S   | 27° 58'  | 82° 32' | 19                      | e22             | 5                    | 5            | 5               |                           | 3                   | e5                              | e. Same site as prior to 10/1/75. Station type changed from WSMO to WSCMO 12/13/78. |         |
| Hangar One Tampa International Airport              | 12/7/81       | 11/01/95    | 0.5 mi. N.  | 27° 58'  | 82° 32' | 19                      | 22              | f35                  | f52          | f35             |                           | f35                 | 5 g5                            | f. Moved to new location 12/1/81.<br>g. Type change 8/1985.                         |         |
| International Airport                               | 11/01/95      | Present     | NA  | 27° 58'  | 82° 32' | h8                      |                 |                      |              |                 |                           |                     | s                               | ASOS Commissioned 11/01/95<br>h. Ground elevation.                                  |         |

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\* NOTES: For earlier station history see previous edition.