

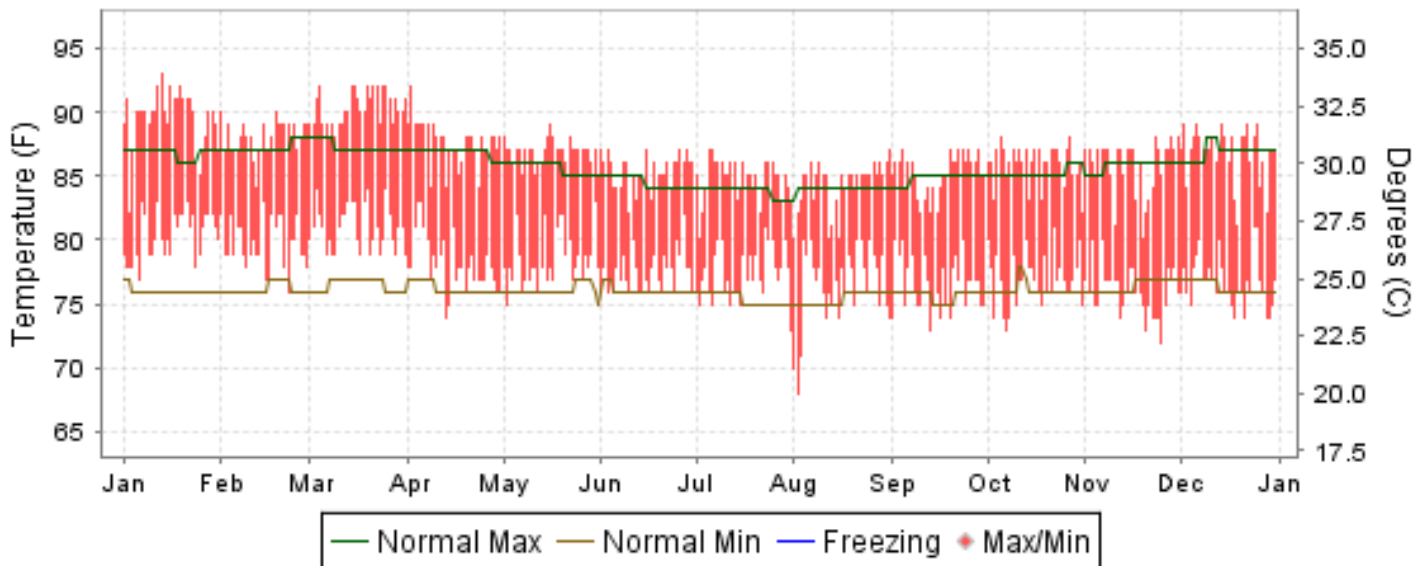


# 2010 LOCAL CLIMATOLOGICAL DATA ANNUAL SUMMARY WITH COMPARATIVE DATA

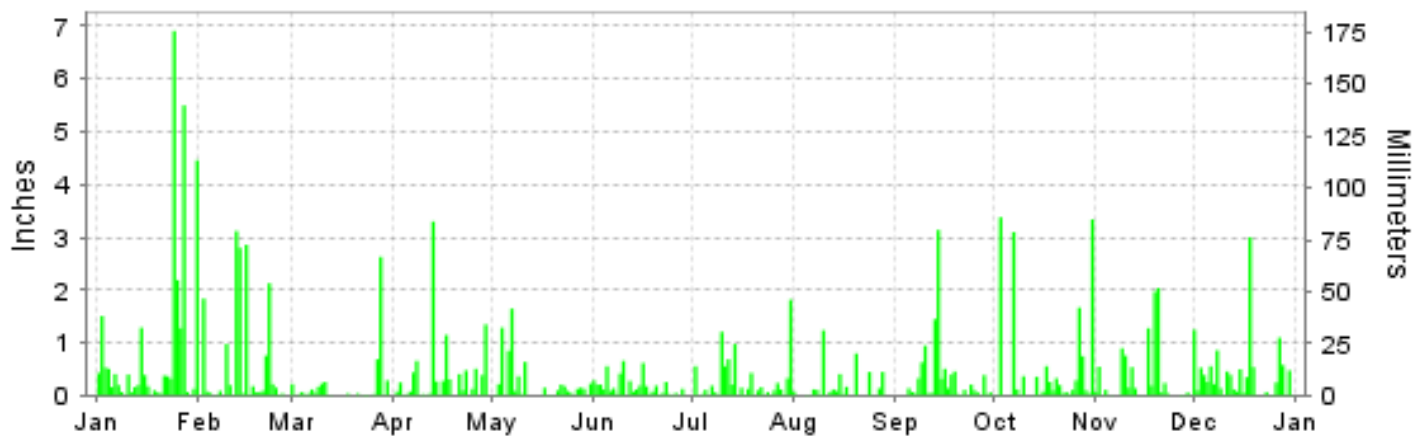
ISSN 0198-4357

## PAGO PAGO, AMERICAN SAMOA (NSTU)

### 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 2010

## PAGO PAGO (NSTU)

LATITUDE: 14° 19'N      LONGITUDE: -170° 42'W      ELEVATION (FT): GRND: 12      BARO: 15      TIME ZONE: 165 W MER (UTC -11)      WBAN: 61705

| ELEMENT                  |                             | JAN   | FEB   | MAR   | APR   | MAY   | JUN   | JUL   | AUG   | SEP   | OCT   | NOV   | DEC    | YEAR      |    |
|--------------------------|-----------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-----------|----|
| TEMPERATURE °F           | MEAN DAILY MAXIMUM          | 89.5  | 88.0  | 90.3  | 87.6  | 86.8  | 85.3  | 84.7  | 84.3  | 85.1  | 85.9  | 85.8  | 86.8   | 86.7      |    |
|                          | HIGHEST DAILY MAXIMUM       | 93    | 90    | 92    | 92    | 89    | 87    | 87    | 87    | 87    | 88    | 88    | 89     | 93        |    |
|                          | DATE OF OCCURRENCE          | 13    | 18+   | 25+   | 02    | 16    | 28+   | 06+   | 31    | 28+   | 27+   | 30+   | 25+    | JAN 13    |    |
|                          | MEAN DAILY MINIMUM          | 80.4  | 79.8  | 81.0  | 78.2  | 78.5  | 77.6  | 77.4  | 76.5  | 76.6  | 77.0  | 76.1  | 76.8   | 78.0      |    |
|                          | LOWEST DAILY MINIMUM        | 77    | 76    | 79    | 74    | 75    | 76    | 73    | 68    | 73    | 73    | 72    | 74     | 68        |    |
|                          | DATE OF OCCURRENCE          | 06    | 22    | 31+   | 13    | 02    | 30+   | 31    | 02    | 13    | 07    | 25    | 29+    | AUG 02    |    |
|                          | AVERAGE DRY BULB            | 85.0  | 83.9  | 85.7  | 82.9  | 82.7  | 81.5  | 81.1  | 80.4  | 80.9  | 81.5  | 81.0  | 81.8   | 82.4      |    |
|                          | MEAN WET BULB               | 80.1  |       | 80.1  | 79.7  | 79.6  | 78.5  | 77.8  | 76.9  | 77.5  | 78.5  | 78.2  | 78.8   |           |    |
|                          | MEAN DEW POINT              | 78.5  |       | 78.0  | 78.4  | 78.5  | 77.3  | 76.5  | 75.3  | 75.8  | 77.4  | 77.0  | 77.6   |           |    |
|                          | NUMBER OF DAYS WITH:        |       |       |       |       |       |       |       |       |       |       |       |        |           |    |
|                          | MAXIMUM >= 90°              | 20    | 2     | 20    | 1     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0      | 0         | 43 |
|                          | MAXIMUM <= 32°              | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0      | 0         | 0  |
| MINIMUM <= 32°           | 0                           | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0      | 0         |    |
| MINIMUM <= 0°            | 0                           | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0      | 0         |    |
| H/C                      | HEATING DEGREE DAYS         | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0      | 0         |    |
|                          | COOLING DEGREE DAYS         | 624   | 535   | 647   | 542   | 557   | 500   | 506   | 486   | 485   | 517   | 485   | 526    | 6410      |    |
| RH                       | MEAN (PERCENT)              | 81    | 82    | 80    | 86    | 87    | 87    | 87    | 84    | 84    | 89    | 89    | 89     | 85        |    |
|                          | HOUR 01 LST                 | 85    | 86    | 85    | 90    | 90    | 90    | 89    | 87    | 86    | 93    | 94    | 94     | 89        |    |
|                          | HOUR 07 LST                 | 82    | 84    | 81    | 86    | 90    | 88    | 88    | 85    | 83    | 88    | 88    | 90     | 86        |    |
|                          | HOUR 13 LST                 | 76    | 77    | 72    | 78    | 81    | 83    | 83    | 78    | 82    | 83    | 83    | 82     | 80        |    |
|                          | HOUR 19 LST                 | 81    | 82    | 80    | 88    | 89    | 87    | 88    | 86    | 86    | 91    | 91    | 91     | 87        |    |
| S                        | PERCENT POSSIBLE SUNSHINE   | 45    | 57    | 67    | 56    | 49    | 30    |       |       |       |       |       |        |           |    |
| W/O                      | NUMBER OF DAYS WITH:        |       |       |       |       |       |       |       |       |       |       |       |        |           |    |
|                          | HEAVY FOG(VISBY <= 1/4 MI)  | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0      | 0         |    |
|                          | THUNDERSTORMS               | 2     | 0     | 2     | 4     | 1     | 1     | 2     | 0     | 3     | 3     | 2     | 11     | 31        |    |
| 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.)   | 29.69 |       | 29.77 | 29.85 | 29.84 | 29.90 | 29.90 | 29.92 | 29.92 | 29.86 | 29.84 | 29.82  |           |    |
|                          | MEAN SEA-LEVEL PRESS. (IN.) | 29.70 |       | 29.78 | 29.86 | 29.85 | 29.91 | 29.91 | 29.93 | 29.93 | 29.87 | 29.85 | 29.83  |           |    |
| WINDS                    | RESULTANT SPEED (MPH)       | 4.3   | 7.6   | 5.4   | 5.6   | 9.1   | 13.2  | 11.3  | 12.4  | 16.0  | 7.2   | 6.2   | 7.0    | 8.6       |    |
|                          | RES. DIR. (TENS OF DEGS.)   | 09    | 11    | 07    | 08    | 09    | 10    | 09    | 09    | 09    | 07    | 06    | 07     | 09        |    |
|                          | MEAN SPEED (MPH)            | 10.3  | 12.2  | 9.0   | 8.2   | 10.9  | 14.4  | 13.2  | 13.9  | 17.0  | 9.8   | 8.2   | 9.0    | 11.3      |    |
|                          | PREVAIL.DIR.(TENS OF DEGS.) | 10    | 10    | 05    | 09    | 09    | 11    | 09    | 09    | 09    | 07    | 07    | 07     | 09        |    |
|                          | MAXIMUM 2-MINUTE WIND       |       |       |       |       |       |       |       |       |       |       |       |        |           |    |
|                          | SPEED (MPH)                 | 30    | 30    | 25    | 22    | 25    | 29    | 29    | 25    | 30    | 23    | 25    | 30     | 30        |    |
|                          | DIR. (TENS OF DEGS.)        | 30    | 24    | 10    | 04    | 09    | 09    | 10    | 07    | 07    | 12    | 06    | 06     | 06        |    |
|                          | DATE OF OCCURRENCE          | 27    | 13    | 18    | 16    | 21    | 19    | 31    | 08    | 28    | 31    | 04    | 18     | DEC 18    |    |
|                          | MAXIMUM 3-SECOND WIND:      |       |       |       |       |       |       |       |       |       |       |       |        |           |    |
|                          | SPEED (MPH)                 | 43    | 55    | 31    | 30    | 33    | 36    | 38    | 36    | 41    | 30    | 33    | 36     | 55        |    |
| DIR. (TENS OF DEGS.)     | 27                          | 23    | 09    | 05    | 09    | 09    | 09    | 09    | 09    | 09    | 09    | 05    | 23     |           |    |
| DATE OF OCCURRENCE       | 27                          | 13    | 18    | 10    | 19    | 16    | 31    | 07    | 14    | 10    | 04    | 18    | FEB 13 |           |    |
| PRECIPITATION            | WATER EQUIVALENT:           |       |       |       |       |       |       |       |       |       |       |       |        |           |    |
|                          | TOTAL (IN.)                 | 28.31 | 15.83 | 4.99  | 10.33 | 6.61  | 5.05  | 8.30  | 4.32  | 9.68  | 15.33 | 9.15  | 12.34  | 130.24    |    |
|                          | GREATEST 24-HOUR (IN.)      | 7.17  | 5.31  | 3.25  | 3.30  | 2.41  | 1.08  | 1.96  | 1.25  | 3.19  | 3.39  | 3.50  | 3.25   | 7.17      |    |
|                          | DATE OF OCCURRENCE          | 24-25 | 12-13 | 27-28 | 13    | 06-07 | 09-10 | 30-31 | 09-10 | 14-15 | 02-03 | 19-20 | 18-19  | JAN 24-25 |    |
|                          | NUMBER OF DAYS WITH:        |       |       |       |       |       |       |       |       |       |       |       |        |           |    |
|                          | PRECIPITATION 0.01          | 28    | 23    | 20    | 24    | 21    | 26    | 25    | 17    | 25    | 24    | 20    | 28     | 281       |    |
| PRECIPITATION 0.10       | 23                          | 11    | 8     | 15    | 14    | 16    | 18    | 10    | 15    | 16    | 12    | 20    | 178    |           |    |
| PRECIPITATION 1.00       | 7                           | 5     | 1     | 3     | 2     | 0     | 2     | 1     | 2     | 4     | 3     | 3     | 33     |           |    |
| 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 PAGO PAGO (NSTU)

LATITUDE:  
14° 19'N

LONGITUDE:  
-170° 42'W

ELEVATION (FT):  
GRND: 12 BARO: 15

TIME ZONE:  
165 W MER (UTC -11)

WBAN: 61705

|  | ELEMENT   | POR | JAN   | FEB   | MAR   | APR   | MAY   | JUN   | JUL   | AUG   | SEP   | OCT   | NOV   | DEC   | YEAR     |
|--|---|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|
| TEMPERATURE °F                           | NORMAL DAILY MAXIMUM                              | 30  | 86.8  | 87.2  | 87.3  | 86.9  | 85.6  | 84.5  | 83.8  | 84.0  | 84.8  | 85.2  | 85.8  | 86.9  | 85.7     |
|  | MEAN DAILY MAXIMUM                                | 44  | 87.3  | 87.6  | 87.7  | 87.1  | 85.8  | 84.8  | 84.0  | 84.0  | 85.0  | 85.5  | 86.3  | 86.9  | 86.0     |
|  | HIGHEST DAILY MAXIMUM                             | 51  | 95    | 96    | 95    | 95    | 93    | 91    | 91    | 92    | 92    | 94    | 95    | 94    | 96       |
|  | YEAR OF OCCURRENCE                                |     | 1998  | 1998  | 1998  | 1998  | 2000  | 1995  | 2002  | 2002  | 2002  | 2001  | 1998  | 2001  | FEB 1998 |
|  | MEAN OF EXTREME MAXS.                             | 44  | 90.3  | 90.5  | 90.5  | 90.0  | 88.9  | 87.7  | 87.1  | 87.3  | 88.1  | 88.7  | 89.6  | 90.2  | 89.1     |
|  | NORMAL DAILY MINIMUM                              | 30  | 76.1  | 76.3  | 76.6  | 76.3  | 76.2  | 76.1  | 75.5  | 75.5  | 75.8  | 76.2  | 76.5  | 76.4  | 76.1     |
|  | MEAN DAILY MINIMUM                                | 44  | 76.8  | 76.8  | 76.9  | 76.6  | 76.5  | 76.5  | 75.8  | 75.6  | 76.0  | 76.4  | 76.7  | 76.7  | 76.4     |
|  | LOWEST DAILY MINIMUM                              | 51  | 67    | 67    | 67    | 68    | 66    | 64    | 62    | 64    | 63    | 67    | 67    | 67    | 62       |
|  | YEAR OF OCCURRENCE                                |     | 1965  | 1965  | 1965  | 1979  | 1974  | 1965  | 1964  | 1979  | 1970  | 1973  | 1964  | 1964  | JUL 1964 |
|  | MEAN OF EXTREME MINS.                             | 44  | 73.0  | 73.8  | 73.5  | 72.9  | 71.8  | 71.5  | 70.4  | 70.3  | 70.8  | 72.0  | 72.6  | 72.6  | 72.1     |
|  | NORMAL DRY BULB                                   | 30  | 81.5  | 81.8  | 82.0  | 81.6  | 80.9  | 80.3  | 79.7  | 79.8  | 80.3  | 80.7  | 81.2  | 81.7  | 81.0     |
|  | MEAN DRY BULB                                     | 44  | 82.0  | 82.2  | 82.3  | 81.9  | 81.2  | 80.6  | 79.9  | 79.8  | 80.5  | 81.0  | 81.5  | 81.8  | 81.2     |
|  | MEAN WET BULB                                     | 27  | 77.9  | 78.2  | 78.2  | 78.1  | 77.2  | 76.4  | 75.5  | 75.5  | 76.2  | 77.0  | 77.7  | 77.9  | 77.2     |
|  | MEAN DEW POINT                                    | 27  | 76.8  | 77.0  | 77.2  | 77.1  | 76.0  | 75.1  | 74.0  | 74.1  | 74.9  | 75.7  | 76.4  | 76.8  | 75.9     |
|  | NORMAL NO. DAYS WITH:<br>MAXIMUM >= 90            | 30  | 2.8   | 4.1   | 3.6   | 2.9   | 0.9   | 0.2   | *     | 0.1   | 0.5   | 0.8   | 1.7   | 3.9   | 21.5     |
|  | MAXIMUM <= 32                                     | 30  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0      |
|  | MINIMUM <= 32                                     | 30  | 0.0   | 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 <= 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  | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0        |
|  | NORMAL COOLING DEG. DAYS                          | 30  | 511   | 469   | 526   | 498   | 493   | 460   | 454   | 457   | 460   | 486   | 485   | 515   | 5814     |
| RH                                       | NORMAL (PERCENT)                                  | 30  | 83    | 83    | 83    | 83    | 82    | 81    | 79    | 80    | 80    | 82    | 82    | 82    | 82       |
|  | HOURLY 01 LST                                     | 30  | 88    | 88    | 88    | 88    | 87    | 85    | 83    | 83    | 85    | 86    | 86    | 88    | 86       |
|  | HOURLY 07 LST                                     | 30  | 88    | 88    | 89    | 89    | 87    | 85    | 83    | 84    | 84    | 84    | 84    | 85    | 86       |
|  | HOURLY 13 LST                                     | 30  | 75    | 75    | 75    | 76    | 76    | 76    | 74    | 74    | 74    | 75    | 76    | 75    | 75       |
|  | HOURLY 19 LST                                     | 30  | 82    | 82    | 82    | 84    | 84    | 82    | 80    | 81    | 81    | 82    | 82    | 82    | 82       |
| S  | PERCENT POSSIBLE SUNSHINE                         | 42  | 45    | 47    | 47    | 42    | 34    | 35    | 40    | 44    | 51    | 44    | 46    | 47    | 44       |
| W/O                                      | MEAN NO. DAYS WITH:<br>HEAVY FOG(VISBY <= 1/4 MI) | 44  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0      |
|  | THUNDERSTORMS                                     | 44  | 2.9   | 2.9   | 3.2   | 3.4   | 2.8   | 1.2   | 0.7   | 0.6   | 1.1   | 2.6   | 3.7   | 3.6   | 28.7     |
| CLOUDNESS                                | MEAN:<br>SUNRISE-SUNSET (OKTAS)                   | 39  | 6.6   | 6.6   | 6.2   | 6.2   | 6.1   | 5.7   | 5.7   | 5.6   | 5.5   | 6.1   | 6.3   | 6.4   | 6.1      |
|  | MIDNIGHT-MIDNIGHT (OKTAS)                         | 38  | 6.2   | 6.2   | 5.9   | 5.9   | 5.8   | 5.4   | 5.7   | 5.5   | 5.5   | 5.9   | 6.1   | 6.2   | 5.9      |
|  | MEAN NO. DAYS WITH:<br>CLEAR                      | 39  | 0.5   | 0.5   | 1.0   | 1.0   | 0.9   | 1.6   | 1.6   | 1.8   | 1.8   | 1.1   | 0.7   | 1.1   | 13.6     |
|  | PARTLY CLOUDY                                     | 39  | 9.7   | 9.4   | 11.8  | 12.0  | 13.5  | 13.9  | 14.6  | 15.1  | 14.0  | 13.1  | 10.9  | 10.1  | 148.1    |
|  | CLOUDY  | 39  | 20.8  | 18.5  | 18.6  | 17.1  | 16.7  | 14.6  | 14.2  | 13.6  | 13.5  | 16.2  | 17.9  | 19.1  | 200.8    |
| PR                                       | MEAN STATION PRESSURE(IN)                         | 27  | 29.76 | 29.77 | 29.80 | 29.82 | 29.85 | 29.87 | 29.89 | 29.89 | 29.89 | 29.86 | 29.81 | 29.76 | 29.83    |
|  | MEAN SEA-LEVEL PRES. (IN)                         | 27  | 29.77 | 29.78 | 29.81 | 29.83 | 29.86 | 29.89 | 29.90 | 29.91 | 29.90 | 29.87 | 29.82 | 29.78 | 29.84    |
| WINDS                                    | MEAN SPEED (MPH)                                  | 27  | 9.7   | 9.6   | 9.0   | 9.4   | 11.2  | 13.3  | 13.8  | 13.5  | 13.9  | 12.2  | 11.0  | 10.2  | 11.4     |
|  | PREVAIL.DIR.(TENS OF DEGS)                        | 29  | 09    | 09    | 09    | 09    | 12    | 11    | 12    | 09    | 09    | 09    | 09    | 09    | 09       |
|  | MAXIMUM 2-MINUTE:<br>SPEED (MPH)                  | 31  | 48    | 63    | 37    | 35    | 35    | 43    | 33    | 33    | 38    | 35    | 39    | 81    | 81       |
|  | DIR. (TENS OF DEGS)                               |     | 03    | 03    | 03    | 03    | 10    | 00    | 06    | 01    | 00    | 01    | 00    | 02    | 02       |
|  | YEAR OF OCCURRENCE                                |     | 2004  | 1990  | 1996  | 1994  | 2007  | 1995  | 2007  | 1995  | 1988  | 1986  | 1994  | 1991  | DEC 1991 |
|  | MAXIMUM 3-SECOND<br>SPEED (MPH)                   | 27  | 115   | 107   | 59    | 59    | 47    | 59    | 49    | 45    | 49    | 43    | 47    | 109   | 115      |
|  | DIR. (TENS OF DEGS)                               |     | 00    | 0N    | 0N    | 00    | 00    | 0N    | 00    | 0S    | 00    | 00    | 00    | 0S    | 00       |
|  | YEAR OF OCCURRENCE                                |     | 2004  | 1990  | 1997  | 1994  | 1996  | 1997  | 1992  | 1994  | 1988  | 1986  | 1991  | 1991  | JAN 2004 |
| PRECIPITATION                            | NORMAL (IN)                                       | 30  | 14.02 | 12.14 | 11.15 | 11.16 | 10.43 | 5.94  | 5.76  | 6.43  | 7.36  | 10.03 | 11.16 | 13.38 | 118.96   |
|  | MAXIMUM MONTHLY (IN)                              | 51  | 28.31 | 32.66 | 31.84 | 28.35 | 29.10 | 13.32 | 19.59 | 17.22 | 25.29 | 29.59 | 25.67 | 27.40 | 32.66    |
|  | YEAR OF OCCURRENCE                                |     | 2010  | 1968  | 1961  | 1992  | 1999  | 2005  | 1962  | 1995  | 1972  | 1996  | 1978  | 2009  | FEB 1968 |
|  | MINIMUM MONTHLY (IN)                              | 51  | 4.65  | 2.02  | 4.01  | 0.74  | 1.61  | 1.97  | 0.72  | 0.29  | 0.63  | 2.10  | 1.36  | 2.25  | 0.29     |
|  | YEAR OF OCCURRENCE                                |     | 1968  | 1998  | 1976  | 1998  | 1983  | 1992  | 1974  | 1989  | 1987  | 1975  | 1965  | 1995  | AUG 1989 |
|  | MAXIMUM IN 24 HOURS (IN)                          | 51  | 10.34 | 9.01  | 6.48  | 10.79 | 11.35 | 5.94  | 8.65  | 6.18  | 10.28 | 8.62  | 6.51  | 8.97  | 11.35    |
|  | YEAR OF OCCURRENCE                                |     | 1997  | 1968  | 1981  | 1975  | 1999  | 1961  | 1962  | 1978  | 1972  | 1996  | 1992  | 1970  | MAY 1999 |
|  | NORMAL NO. DAYS WITH:<br>PRECIPITATION >= 0.01    | 30  | 24.2  | 21.6  | 23.2  | 21.4  | 19.9  | 18.2  | 18.4  | 17.8  | 17.2  | 21.5  | 20.4  | 22.9  | 246.7    |
|  | PRECIPITATION >= 1.00                             | 30  | 3.8   | 3.7   | 2.8   | 3.4   | 2.9   | 1.5   | 1.7   | 1.6   | 2.0   | 3.1   | 3.7   | 4.2   | 34.4     |
| 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   | 0.0      |
|  | MAXIMUM MONTHLY (IN)                              | 14  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0      |
|  | YEAR OF OCCURRENCE                                |     |       |       |       |       |       |       |       |       |       |       |       |       |          |
|  | MAXIMUM IN 24 HOURS (IN)                          | 51  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0      |
|  | YEAR OF OCCURRENCE                                |     |       |       |       |       |       |       |       |       |       |       |       |       |          |
|  | MAXIMUM SNOW DEPTH (IN)                           | 43  | 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) 2010 PAGO PAGO (NSTU)**

| YEAR           | JAN   | FEB   | MAR   | APR   | MAY   | JUN   | JUL   | AUG   | SEP   | OCT   | NOV   | DEC   | ANNUAL |
|----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| 1981           | 14.25 | 14.23 | 25.37 | 22.00 | 9.25  | 9.47  | 10.19 | 10.64 | 4.04  | 16.38 | 10.08 | 19.58 | 165.48 |
| 1982           | 9.09  | 30.25 | 7.68  | 4.13  | 7.90  | 4.22  | 6.96  | 16.20 | 6.30  | 4.38  | 6.35  | 2.84  | 106.30 |
| 1983           | 9.45  | 12.09 | 6.07  | 10.97 | 1.61  | 2.71  | 1.12  | 2.11  | 7.78  | 7.17  | 13.23 | 13.05 | 87.36  |
| 1984           | 9.70  | 8.03  | 19.34 | 6.70  | 4.79  | 7.44  | 1.86  | 4.25  | 5.23  | 15.21 | 8.08  | 26.95 | 117.58 |
| 1985           | 16.71 | 8.27  | 5.00  | 18.66 | 10.41 | 12.60 | 3.84  | 5.76  | 9.56  | 10.39 | 9.24  | 6.27  | 116.71 |
| 1986           | 24.88 | 9.47  | 6.88  | 18.83 | 12.33 | 5.69  | 8.79  | 5.05  | 17.67 | 8.87  | 8.82  | 22.60 | 149.88 |
| 1987           | 17.05 | 15.01 | 10.09 | 8.05  | 5.51  | 4.02  | 3.86  | 6.29  | 0.63  | 3.87  | 3.83  | 16.42 | 94.63  |
| 1988           | 8.34  | 9.32  | 12.76 | 10.57 | 9.76  | 6.15  | 9.42  | 3.98  | 6.78  | 9.21  | 16.10 | 24.39 | 126.78 |
| 1989           | 18.37 | 14.69 | 8.20  | 13.60 | 7.51  | 5.43  | 9.56  | 0.29  | 1.35  | 9.78  | 17.88 | 14.12 | 120.78 |
| 1990           | 8.87  | 22.54 | 9.90  | 13.01 | 3.52  | 6.31  | 4.82  | 2.45  | 3.68  | 9.68  | 11.25 | 9.30  | 105.33 |
| 1991           | 13.67 | 21.01 | 9.02  | 9.45  | 11.25 | 7.86  | 9.16  | 4.36  | 3.40  | 9.63  | 10.20 | 22.55 | 131.56 |
| 1992           | 15.40 | 12.44 | 13.76 | 28.35 | 10.67 | 1.97  | 5.22  | 6.33  | 6.95  | 6.59  | 22.79 | 8.94  | 139.41 |
| 1993           | 23.47 | 7.27  | 17.26 | 12.51 | 8.82  | 3.89  | 4.12  | 8.61  | 9.28  | 9.32  | 8.34  | 12.62 | 125.51 |
| 1994           | 10.37 | 6.78  | 10.96 | 22.65 | 18.96 | 3.80  | 15.68 | 11.83 | 11.56 | 17.26 | 15.52 | 16.69 | 162.06 |
| 1995           | 16.40 | 14.69 | 13.39 | 9.07  | 9.55  | 5.23  | 7.27  | 17.22 | 7.75  | 6.42  | 14.95 | 2.25  | 124.19 |
| 1996           | 11.93 | 11.84 | 11.12 | 7.48  | 10.87 | 6.65  | 3.45  | 1.38  | 10.52 | 29.59 | 6.86  | 10.75 | 122.44 |
| 1997           | 27.95 | 11.91 | 7.91  | 5.97  | 9.29  | 3.51  | 3.68  | 7.94  | 6.00  | 5.89  | 5.29  | 7.84  | 103.18 |
| 1998           | 10.64 | 2.02  | 12.70 | 0.74  | 1.64  | 4.72  | 1.42  | 1.59  | 4.30  | 6.31  | 3.22  | 10.46 | 59.76  |
| 1999           | 11.36 | 14.50 | 5.48  | 5.02  | 29.10 | 6.29  | 3.41  | 5.71  | 14.16 | 8.72  | 10.54 | 12.50 | 126.79 |
| 2000           | 13.43 | 13.54 | 18.24 | 4.85  | 13.40 | 7.93  | 3.34  | 3.21  | 6.77  | 11.08 | 9.04  | 10.41 | 115.24 |
| 2001           | 6.39  | 13.67 | 15.21 | 6.62  | 4.79  | 4.61  | 4.69  | 3.03  | 4.72  | 8.80  | 8.54  | 15.77 | 96.84  |
| 2002           | 7.42  | 4.85  | 12.56 | 17.84 | 11.20 | 5.92  | 10.42 | 5.90  | 1.62  | 11.87 | 15.26 | 7.94  | 112.80 |
| 2003           | 7.41  | 9.11  | 10.41 | 9.33  | 19.59 | 7.69  | 12.43 | 6.78  | 4.32  | 6.48  | 21.39 | 16.77 | 131.71 |
| 2004           | 12.31 | 13.65 | 13.60 | 7.40  | 5.11  | 3.76  | 7.11  | 2.67  | 4.95  | 11.52 | 4.00  | 9.68  | 95.76  |
| 2005           | 13.25 | 10.55 | 12.94 | 14.50 | 10.78 | 13.32 | 5.43  | 13.56 | 14.43 | 6.75  | 9.69  | 24.89 | 150.09 |
| 2006           | 23.87 | 29.28 | 8.50  | 5.15  | 7.86  | 5.07  | 8.27  | 8.75  | 15.83 | 9.75  | 16.09 | 21.63 | 160.05 |
| 2007           | 21.01 | 10.35 | 20.31 | 4.66  | 17.34 | 3.44  | 5.67  | 4.74  | 17.02 | 16.18 | 14.61 | 9.86  | 145.19 |
| 2008           | 22.15 | 4.90  | 10.08 | 12.89 | 19.83 | 12.00 | 4.46  | 3.59  | 6.13  | 3.23  | 11.87 | 18.51 | 129.64 |
| 2009           | 11.34 | 7.62  | 9.99  | 9.28  | 19.17 | 3.65  | 9.96  | 10.41 | 6.28  | 7.53  | 16.65 | 27.40 | 139.28 |
| 2010           | 28.31 | 15.83 | 4.99  | 10.33 | 6.61  | 5.05  | 8.30  | 4.32  | 9.68  | 15.33 | 9.15  | 12.34 | 130.24 |
| POR=<br>44 YRS | 14.17 | 12.41 | 11.44 | 11.33 | 10.81 | 6.38  | 6.32  | 6.61  | 7.48  | 10.39 | 11.21 | 14.40 | 122.95 |

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**AVERAGE TEMPERATURE (°F) 2010 PAGO PAGO (NSTU)**

| YEAR           | JAN  | FEB  | MAR  | APR  | MAY  | JUN  | JUL  | AUG  | SEP  | OCT  | NOV  | DEC  | ANNUAL |
|----------------|------|------|------|------|------|------|------|------|------|------|------|------|--------|
| 1981           | 81.7 | 80.8 | 80.6 | 80.2 | 80.6 | 79.1 | 79.0 | 79.2 | 80.6 | 79.8 | 80.8 | 80.9 | 80.3   |
| 1982           | 82.0 | 80.4 | 82.3 | 81.8 | 80.8 | 80.4 | 78.7 | 79.0 | 79.2 | 80.8 | 80.2 | 81.1 | 80.6   |
| 1983           | 82.1 | 83.5 | 81.9 | 81.1 | 81.1 | 79.7 | 78.7 | 78.3 | 80.2 | 79.6 | 80.4 | 81.4 | 80.7   |
| 1984           | 80.7 | 81.5 | 81.3 | 81.5 | 81.8 | 80.6 | 79.0 | 79.8 | 79.6 | 79.6 | 81.0 | 80.3 | 80.6   |
| 1985           | 80.3 | 81.6 | 82.2 | 80.8 | 80.4 | 80.0 | 79.5 | 79.9 | 79.7 | 80.9 | 80.5 | 81.7 | 80.6   |
| 1986           | 81.2 | 81.6 | 82.1 | 81.2 | 80.6 | 80.6 | 79.3 | 78.3 | 79.9 | 81.1 | 81.8 | 81.7 | 80.8   |
| 1987           | 81.7 | 82.5 | 82.3 | 82.1 | 80.4 | 78.5 | 78.3 | 78.2 | 79.7 | 80.4 | 81.8 | 82.2 | 80.7   |
| 1988           | 82.6 | 82.8 | 82.9 | 81.4 | 81.7 | 81.4 | 79.6 | 80.5 | 80.2 | 80.1 | 79.7 | 79.9 | 81.1   |
| 1989           | 79.7 | 80.5 | 81.3 | 80.7 | 80.5 | 80.1 | 78.7 | 79.7 | 81.7 | 81.1 | 80.5 | 80.4 | 80.4   |
| 1990           | 81.5 | 81.4 | 81.6 | 80.6 | 81.9 | 80.4 | 80.2 | 80.1 | 80.4 | 81.5 | 81.6 | 81.7 | 81.1   |
| 1991           | 81.5 | 82.0 | 82.6 | 82.6 | 81.0 | 80.6 | 81.1 | 80.8 | 80.5 | 81.1 | 82.1 | 81.5 | 81.5   |
| 1992           | 81.9 | 82.2 | 81.5 | 81.5 | 82.0 | 81.3 | 81.7 | 80.3 | 81.5 | 81.4 | 80.4 | 82.0 | 81.5   |
| 1993           | 81.7 | 81.9 | 81.5 | 81.9 | 81.2 | 79.9 | 78.3 | 80.0 | 79.7 | 80.3 | 82.5 | 83.5 | 81.0   |
| 1994           | 83.1 | 84.1 | 83.9 | 83.1 | 82.1 | 80.8 | 80.3 | 79.1 | 80.0 | 80.4 | 81.6 | 82.9 | 81.8   |
| 1995           | 83.0 | 83.1 | 83.5 | 82.7 | 82.7 | 83.6 | 82.4 | 81.7 | 81.7 | 82.0 | 82.8 | 83.2 | 82.7   |
| 1996           | 83.0 | 83.0 | 83.4 | 83.0 | 81.9 | 82.6 | 81.7 | 81.2 | 82.6 | 81.6 | 83.4 | 83.7 | 82.6   |
| 1997           | 82.4 | 83.6 | 82.7 | 83.9 | 82.6 | 80.9 | 81.7 | 80.6 | 81.9 | 83.7 | 83.8 | 84.5 | 82.7   |
| 1998           | 85.3 | 86.3 | 85.8 | 85.2 | 84.2 | 83.6 | 81.7 | 82.9 | 84.4 | 85.2 | 86.3 | 83.3 | 84.5   |
| 1999           | 81.6 | 81.9 | 81.9 | 82.9 | 80.2 | 80.7 | 81.0 | 80.8 | 81.2 | 81.4 | 82.7 | 83.6 | 81.7   |
| 2000           | 83.8 | 83.8 | 83.1 | 83.8 | 81.7 | 81.4 | 80.0 | 81.6 | 82.3 | 81.7 | 82.9 | 83.7 | 82.5   |
| 2001           | 84.2 | 83.4 | 83.4 | 83.3 | 83.2 | 82.8 | 81.5 | 82.3 | 82.1 | 82.4 | 83.4 | 83.2 | 82.9   |
| 2002           | 84.3 | 85.4 | 84.3 | 84.1 | 84.1 | 82.7 | 82.8 | 81.2 | 82.8 | 82.3 | 84.0 | 84.6 | 83.6   |
| 2003           | 85.4 | 83.8 | 84.6 | 82.9 | 82.8 | 80.7 | 80.6 | 79.3 | 81.8 | 82.5 | 81.7 | 82.5 | 82.4   |
| 2004           | 81.8 | 81.3 | 81.5 | 81.3 | 80.8 | 80.5 | 80.7 | 81.4 | 82.0 | 82.5 | 83.1 | 84.7 | 81.8   |
| 2005           | 84.0 | 84.7 | 84.6 | 83.6 | 82.1 | 80.8 | 80.4 | 80.8 | 81.9 | 82.6 | 83.6 | 82.5 | 82.6   |
| 2006           | 82.1 | 82.4 | 83.7 | 83.7 | 83.9 | 81.9 | 80.3 | 81.2 | 81.0 | 81.0 | 81.2 | 82.3 | 82.1   |
| 2007           | 83.2 | 83.6 | 83.5 | 84.2 | 82.5 | 83.5 | 82.9 | 83.2 | 83.0 | 83.1 | 83.7 | 83.5 | 83.3   |
| 2008           | 83.4 | 84.2 | 83.5 | 83.3 | 82.6 | 81.1 | 80.6 | 81.8 | 81.3 | 82.8 | 83.2 | 84.6 | 82.7   |
| 2009           | 85.0 | 85.4 | 85.2 | 85.4 | 82.0 | 81.1 | 80.6 | 79.7 | 80.3 | 81.2 | 81.3 | 81.4 | 82.4   |
| 2010           | 85.0 | 83.9 | 85.7 | 82.9 | 82.7 | 81.5 | 81.1 | 80.4 | 80.9 | 81.5 | 81.0 | 81.8 | 82.4   |
| POR=<br>44 YRS | 82.0 | 82.2 | 82.3 | 81.9 | 81.2 | 80.6 | 79.9 | 79.8 | 80.5 | 81.0 | 81.5 | 81.8 | 81.2   |

**HEATING DEGREE DAYS (base 65°F) 2010 PAGO PAGO (NSTU)**

| YEAR    | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | TOTAL |
|---------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|
| 1983-84 | 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     |
| 1985-86 | 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     |
| 1987-88 | 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     |
| 1989-90 | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0     |
| 1990-91 | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0     |
| 1991-92 | 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     |
| 1993-94 | 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     |
| 1995-96 | 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     |
| 1997-98 | 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     |
| 1999-00 | 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     |
| 2001-02 | 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     |
| 2003-04 | 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     |
| 2005-06 | 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     |
| 2007-08 | 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     |
| 2009-10 | 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     |

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**COOLING DEGREE DAYS (base 65°F) 2010 PAGO PAGO (NSTU)**

| YEAR | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | TOTAL |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|
| 1981 | 526 | 450 | 493 | 465 | 490 | 432 | 439 | 447 | 473 | 467 | 481 | 502 | 5665  |
| 1982 | 533 | 438 | 543 | 512 | 497 | 469 | 433 | 442 | 434 | 496 | 463 | 506 | 5766  |
| 1983 | 539 | 524 | 529 | 493 | 504 | 449 | 429 | 419 | 463 | 456 | 467 | 516 | 5788  |
| 1984 | 495 | 487 | 514 | 504 | 528 | 472 | 442 | 462 | 445 | 459 | 487 | 482 | 5777  |
| 1985 | 481 | 470 | 543 | 480 | 487 | 458 | 457 | 468 | 449 | 500 | 474 | 526 | 5793  |
| 1986 | 510 | 474 | 538 | 490 | 489 | 476 | 452 | 421 | 454 | 506 | 511 | 527 | 5848  |
| 1987 | 521 | 497 | 541 | 520 | 485 | 412 | 420 | 419 | 449 | 485 | 514 | 541 | 5804  |
| 1988 | 550 | 522 | 563 | 499 | 525 | 496 | 457 | 484 | 459 | 473 | 450 | 467 | 5945  |
| 1989 | 468 | 438 | 513 | 478 | 488 | 461 | 431 | 463 | 506 | 506 | 471 | 484 | 5707  |
| 1990 | 519 | 466 | 522 | 471 | 531 | 470 | 478 | 473 | 467 | 519 | 505 | 524 | 5945  |
| 1991 | 514 | 482 | 553 | 533 | 503 | 473 | 505 | 498 | 470 | 506 | 518 | 520 | 6075  |
| 1992 | 529 | 503 | 519 | 499 | 533 | 497 | 525 | 482 | 504 | 514 | 468 | 535 | 6108  |
| 1993 | 524 | 477 | 521 | 513 | 510 | 454 | 421 | 468 | 448 | 483 | 534 | 584 | 5937  |
| 1994 | 569 | 543 | 592 | 547 | 539 | 479 | 483 | 444 | 456 | 484 | 504 | 561 | 6201  |
| 1995 | 565 | 516 | 578 | 539 | 557 | 564 | 548 | 521 | 509 | 534 | 541 | 571 | 6543  |
| 1996 | 567 | 526 | 577 | 546 | 529 | 535 | 522 | 511 | 532 | 521 | 556 | 585 | 6507  |
| 1997 | 547 | 527 | 554 | 576 | 554 | 483 | 526 | 490 | 516 | 588 | 574 | 610 | 6545  |
| 1998 | 640 | 603 | 651 | 613 | 605 | 566 | 524 | 560 | 589 | 630 | 645 | 571 | 7197  |
| 1999 | 521 | 478 | 532 | 543 | 478 | 479 | 503 | 496 | 494 | 515 | 538 | 582 | 6159  |
| 2000 | 592 | 553 | 569 | 569 | 526 | 499 | 474 | 522 | 528 | 527 | 542 | 584 | 6485  |
| 2001 | 598 | 521 | 578 | 552 | 572 | 543 | 519 | 542 | 519 | 545 | 560 | 573 | 6622  |
| 2002 | 604 | 581 | 607 | 581 | 595 | 540 | 557 | 508 | 537 | 543 | 579 | 614 | 6846  |
| 2003 | 637 | 531 | 614 | 545 | 560 | 478 | 485 | 447 | 508 | 550 | 509 | 550 | 6414  |
| 2004 | 528 | 481 | 519 | 495 | 496 | 474 | 497 | 518 | 517 | 549 | 551 | 618 | 6243  |
| 2005 | 596 | 557 | 611 | 566 | 535 | 483 | 485 | 498 | 513 | 556 | 562 | 549 | 6511  |
| 2006 | 534 | 492 | 587 | 569 | 596 | 514 | 470 | 493 | 484 | 461 | 495 | 544 | 6239  |
| 2007 | 573 | 527 | 583 | 583 | 548 | 561 | 561 | 571 | 544 | 569 | 564 | 584 | 6768  |
| 2008 | 578 | 565 | 578 | 557 | 554 | 489 | 493 | 529 | 494 | 559 | 553 | 616 | 6565  |
| 2009 | 625 | 578 | 631 | 619 | 534 | 489 | 492 | 464 | 465 | 507 | 495 | 514 | 6413  |
| 2010 | 624 | 535 | 647 | 542 | 557 | 500 | 506 | 486 | 485 | 517 | 485 | 526 | 6410  |

**SNOWFALL (inches) 2010 PAGO PAGO (NSTU)**

| 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 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   |
| 1990-91        | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   |
| 1991-92        | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   |
| 1992-93        | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   |
| 1993-94        | 0.0 | 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 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   |
| 1997-98        | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   |
| 1998-99        | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   |
| 1999-00        | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   |
| 2000-01        | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   |
| 2001-02        | 0.0 | 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 | 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        | 0.0 | 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=<br>45 YRS | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   |

WBAN : 61705

**REFERENCE NOTES :**

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| <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.<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.</p> | <p>GENERAL CONTINUED:<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.<br/>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.<br/>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><br/>SNOWFALL STOPPED MONTH &amp; YEAR INDICATED ABOVE. NO FURTHER YEARS INCLUDED UNLESS RESTARTED.</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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# 2010 PAGO PAGO AMERICAN SAMOA (NSTU)

Pago Pago Airport is located on the southeastern coast of the island of Tutuila in the American Samoa group, approximately 2,600 miles south-southwest of Hawaii, 1,600 miles north-northeast of New Zealand, and 4,500 miles southwest of California. Tutuila is a long, narrow island lying southwest-northeast, with a land area of 76 square miles, a greatest length of just over 20 miles, and a width ranging from 1 to 2 miles in the eastern half and from 2 to 5 miles in the western. It is volcanic in origin, extremely mountainous, and nearly surrounded by a coral reef. The principal ridge extends the length of the island, reaching a maximum height of 2,141 feet, at Matafao peak, near the central portion of the long axis. Vegetation is moderately dense, with many coconut, banana, and other tropical fruit trees, grass, and low-growing brush. The orientation of Tutuila is such that winds from the east-northeast clockwise to south approach Pago Pago Airport directly from the ocean without being deflected by the terrain, while winds from other directions may be considerably disturbed by topography.

Samoa has a maritime climate with abundant rain and warm, humid days and nights. Rainfall, usually falling as showers, is about 125 inches a year at the airport, but varies greatly over small distances because of topography. Thus, Pago Pago, less than 4 miles north of the airport and at the head of a hill-encircled harbor open to the prevailing wind, receives nearly 200 inches a year. The crest of the range receives well above 250 inches. In most years, the airport records about 300 days with a trace or more of rain and about 175 with .1 inch or more.

The driest months are June through September (southern winter) and the wettest, December through March (southern summer). However, the seasonal rainfall may vary widely in individual years, and heavy showers and long rainy periods can occur in any month. Flooding rains are not unknown. Some of these have been associated with hurricanes and tropical storms, but they have occurred at other times as well.

June, July and August are the coolest months and January, February, and March, the warmest. Afternoon temperatures ordinarily reach the upper 80s in summer and the mid 80s in winter, while nighttime temperatures fall to the mid 70s in the summer and low 70s in winter. The highest temperatures recorded at the airport are in the low 90s and lowest near 60.

The prevailing winds throughout the year are the easterly trades. These tend to be more directly from the east in December through March, but predominantly from east-southeast and southeast during the rest of the year. The trade winds are also less prevalent in summer than in winter. As the foregoing suggests, the trades are interrupted more often in summer than in winter. These interruptions are sometimes associated with the proximity of small tropical storms, of bands of converging winds, or of low pressure systems higher in the atmosphere, all of which help make summer the rainy season. At other times, the absence of the trades is marked by periods of light and variable winds and by land and sea breezes. Westerly to northerly winds, in particular, are more frequent then. These are strong at times, but are often quite light, and may then reflect the nighttime drainage of cooled air from the mountains west and north of the airport.

Thunderstorms are less frequent than might be expected, considering the moistness and instability of the tropical air mass which usually overlies Samoa.

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