

2004

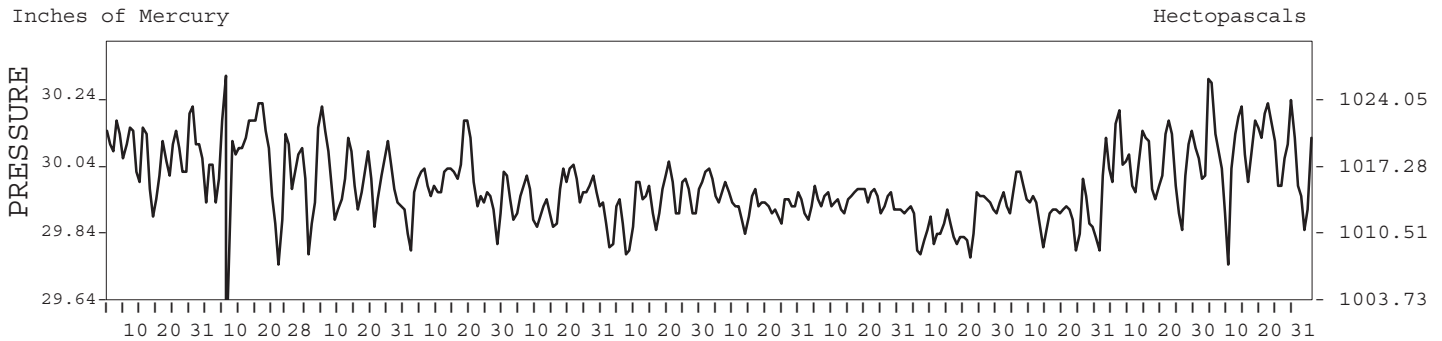
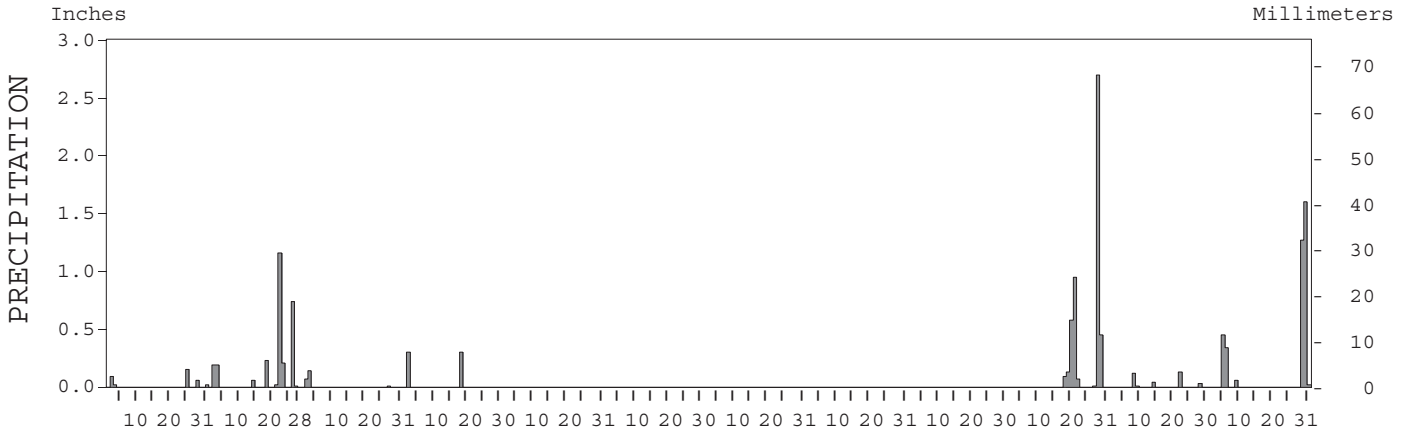
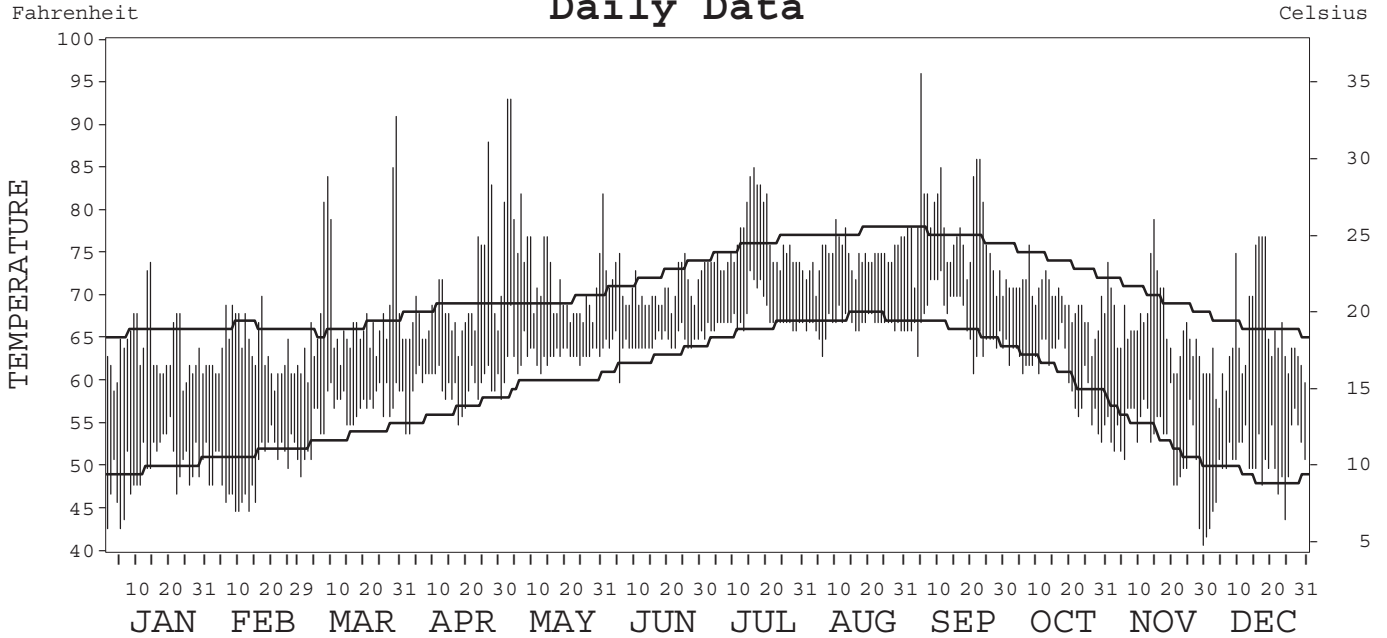
LOCAL CLIMATOLOGICAL DATA  
ANNUAL SUMMARY WITH COMPARATIVE DATA



ISSN 0198-0971

SAN DIEGO,  
CALIFORNIA (SAN)

Daily Data



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*Thomas R. Karl*

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|---|---|---|---|

# METEOROLOGICAL DATA FOR 2004

## SAN DIEGO, CA (SAN)

LATITUDE: 32° 44' 05" N      LONGITUDE: 117° 10' 07" W      ELEVATION (FT): GRND: 78      BARO: 81      TIME ZONE: PACIFIC (UTC + 8)      WBAN: 23188

|                          | ELEMENT                       | JAN   | FEB   | MAR   | APR   | MAY   | JUN   | JUL   | AUG   | SEP   | OCT   | NOV   | DEC    | YEAR      |
|--------------------------|-------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-----------|
| TEMPERATURE °F           | MEAN DAILY MAXIMUM            | 63.8  | 63.7  | 68.4  | 69.5  | 73.7  | 71.0  | 76.5  | 74.8  | 78.1  | 69.7  | 67.0  | 65.1   | 70.1      |
|                          | HIGHEST DAILY MAXIMUM         | 74    | 70    | 91    | 88    | 93    | 75    | 85    | 79    | 96    | 76    | 79    | 77     | 96        |
|                          | DATE OF OCCURRENCE            | 14    | 17    | 29    | 26    | 03+   | 25+   | 16    | 10    | 05    | 08    | 15    | 19+    | SEP 05    |
|                          | MEAN DAILY MINIMUM            | 49.9  | 49.7  | 56.8  | 59.3  | 63.2  | 64.6  | 67.6  | 66.7  | 67.1  | 61.0  | 53.1  | 50.4   | 59.1      |
|                          | LOWEST DAILY MINIMUM          | 43    | 45    | 51    | 54    | 60    | 60    | 65    | 63    | 61    | 53    | 41    | 42     | 41        |
|                          | DATE OF OCCURRENCE            | 05+   | 13+   | 03+   | 02+   | 01    | 05    | 01    | 06    | 21    | 30    | 30    | 01     | NOV 30    |
|                          | AVERAGE DRY BULB              | 56.9  | 56.7  | 62.6  | 64.4  | 68.5  | 67.8  | 72.1  | 70.8  | 72.6  | 65.4  | 60.1  | 57.8   | 64.6      |
|                          | MEAN WET BULB                 | 51.6  |       | 56.6  | 57.0  | 59.8  | 60.8  | 64.5  | 64.2  | 64.3  | 59.9  | 53.1  | 50.8   |           |
|                          | MEAN DEW POINT                | 46.7  |       | 51.9  | 51.1  | 53.6  | 56.1  | 60.3  | 60.5  | 58.8  | 56.1  | 46.3  | 43.3   |           |
|                          | NUMBER OF DAYS WITH:          |       |       |       |       |       |       |       |       |       |       |       |        |           |
| MAXIMUM ≥ 90°            | 0                             | 0     | 1     | 0     | 2     | 0     | 0     | 0     | 1     | 0     | 0     | 0     | 0      | 4         |
| 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           | 247   | 236   | 99    | 43    | 0     | 0     | 0     | 0     | 0     | 30    | 142   | 218    | 1015      |
|                          | COOLING DEGREE DAYS           | 0     | 0     | 32    | 30    | 115   | 92    | 226   | 186   | 235   | 48    | 2     | 1      | 967       |
| RH                       | MEAN (PERCENT)                | 72    | 69    | 73    | 65    | 63    | 68    | 69    | 72    | 66    | 73    | 63    | 63     | 68        |
|                          | HOUR 04 LST                   | 79    | 80    | 83    | 72    | 70    | 72    | 76    | 78    | 74    | 80    | 73    | 69     | 76        |
|                          | HOUR 10 LST                   | 62    | 59    | 68    | 59    | 57    | 65    | 64    | 69    | 57    | 69    | 53    | 56     | 62        |
|                          | HOUR 16 LST                   | 62    | 60    | 63    | 59    | 55    | 62    | 60    | 65    | 57    | 68    | 56    | 58     | 60        |
|                          | HOUR 22 LST                   | 79    | 75    | 76    | 69    | 68    | 71    | 75    | 76    | 72    | 76    | 68    | 69     | 73        |
| S                        | PERCENT POSSIBLE SUNSHINE     |       |       |       |       |       |       |       |       |       |       |       |        |           |
| W/O                      | NUMBER OF DAYS WITH:          |       |       |       |       |       |       |       |       |       |       |       |        |           |
|                          | HEAVY FOG (VISBY ≤ 1/4 MI)    | 0     | 0     | 0     | 2     | 0     | 0     | 0     | 0     | 1     | 1     | 1     | 5      | 10        |
|                          | THUNDERSTORMS                 | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 1     | 1      | 2         |
| CLOUDINESS               | SUNRISE-SUNSET: (OKTAS)       |       |       |       |       |       |       |       |       |       |       |       |        |           |
|                          | CEILOMETER (≤ 12,000 FT.)     |       |       |       |       |       |       |       |       |       |       |       |        |           |
|                          | SATELLITE (> 12,000 FT.)      |       |       |       |       |       |       |       |       |       |       |       |        |           |
|                          | MIDNIGHT-MIDNIGHT: (OKTAS)    |       |       |       |       |       |       |       |       |       |       |       |        |           |
|                          | CEILOMETER (≤ 12,000 FT.)     |       |       |       |       |       |       |       |       |       |       |       |        |           |
| SATELLITE (> 12,000 FT.) |                               |       |       |       |       |       |       |       |       |       |       |       |        |           |
| NUMBER OF DAYS WITH:     |                               |       |       |       |       |       |       |       |       |       |       |       |        |           |
| CLEAR                    |                               |       |       |       |       |       |       |       |       |       |       |       |        |           |
| PARTLY CLOUDY            |                               |       |       |       |       |       |       |       |       |       |       |       |        |           |
| CLOUDY                   |                               |       |       |       |       |       |       |       |       |       |       |       |        |           |
| PR                       | MEAN STATION PRESS. (IN.)     | 30.06 |       | 29.98 | 29.97 | 29.94 | 29.92 | 29.92 | 29.93 | 29.86 | 29.91 | 30.05 | 30.06  |           |
|                          | MEAN SEA-LEVEL PRESS. (IN.)   | 30.09 |       | 30.01 | 30.00 | 29.96 | 29.94 | 29.95 | 29.95 | 29.89 | 29.94 | 30.08 | 30.08  |           |
| WINDS                    | RESULTANT SPEED (MPH)         | 1.7   |       | 2.9   | 3.7   | 3.1   | 4.3   | 4.3   | 3.5   | 3.1   | 2.6   | 1.5   | 0.9    |           |
|                          | RES. DIR. (TENS OF DEGS.)     | 28    |       | 26    | 26    | 22    | 22    | 29    | 28    | 26    | 25    | 29    | 18     |           |
|                          | MEAN SPEED (MPH)              | 4.2   | 5.5   | 6.0   | 6.7   | 7.1   | 7.3   | 6.5   | 6.3   | 6.2   | 6.2   | 4.7   | 4.9    | 6.0       |
|                          | PREVAIL. DIR. (TENS OF DEGS.) | 30    | 29    | 29    | 29    | 28    | 19    | 29    | 29    | 29    | 29    | 29    | 18     | 29        |
|                          | MAXIMUM 2-MINUTE WIND:        |       |       |       |       |       |       |       |       |       |       |       |        |           |
|                          | SPEED (MPH)                   | 18    | 24    | 24    | 26    | 21    | 20    | 17    | 18    | 18    | 30    | 35    | 46     | 46        |
|                          | DIR. (TENS OF DEGS.)          | 29    | 15    | 17    | 27    | 18    | 19    | 28    | 28    | 31    | 27    | 33    | 18     | 18        |
|                          | DATE OF OCCURRENCE            | 31+   | 22    | 02    | 17    | 10    | 27+   | 09    | 22    | 22+   | 20    | 21    | 29     | DEC 29    |
|                          | MAXIMUM 5-SECOND WIND:        |       |       |       |       |       |       |       |       |       |       |       |        |           |
|                          | SPEED (MPH)                   | 24    | 30    | 31    | 31    | 25    | 24    | 21    | 21    | 25    | 39    | 45    | 58     | 58        |
| DIR. (TENS OF DEGS.)     | 29                            | 15    | 18    | 27    | 17    | 18    | 29    | 29    | 27    | 20    | 31    | 17    | 17     |           |
| DATE OF OCCURRENCE       | 03                            | 22    | 02    | 17    | 10    | 06    | 10+   | 22+   | 19    | 20    | 21    | 29    | DEC 29 |           |
| PRECIPITATION            | WATER EQUIVALENT:             |       |       |       |       |       |       |       |       |       |       |       |        |           |
|                          | TOTAL (IN.)                   | 0.34  | 2.81  | 0.22  | 0.60  | T     | 0.00  | 0.00  | 0.00  | T     | 4.98  | 0.33  | 4.01   | 13.29     |
|                          | GREATEST 24-HOUR (IN.)        | 0.15  | 1.24  | 0.21  | 0.30  | T     | 0.00  | 0.00  | 0.00  | T     | 2.71  | 0.13  | 2.79   | 2.79      |
|                          | DATE OF OCCURRENCE            | 25    | 22-23 | 01-02 | 17+   | 26    |       |       |       | 30    | 26-27 | 21+   | 28-29  | DEC 28-29 |
|                          | NUMBER OF DAYS WITH:          |       |       |       |       |       |       |       |       |       |       |       |        |           |
|                          | PRECIPITATION ≥ 0.01          | 5     | 9     | 3     | 2     | 0     | 0     | 0     | 0     | 0     | 8     | 5     | 7      | 39        |
| PRECIPITATION ≥ 0.10     | 1                             | 6     | 1     | 2     | 0     | 0     | 0     | 0     | 0     | 5     | 2     | 5     | 22     |           |
| PRECIPITATION ≥ 1.00     | 0                             | 1     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 1     | 0     | 2     | 4      |           |
| SNOWFALL                 | SNOW, ICE PELLETS, HAIL:      |       |       |       |       |       |       |       |       |       |       |       |        |           |
|                          | TOTAL (IN.)                   |       |       |       |       |       |       |       |       |       |       |       |        |           |
|                          | GREATEST 24-HOUR (IN.)        |       |       |       |       |       |       |       |       |       |       |       |        |           |
|                          | DATE OF OCCURRENCE            |       |       |       |       |       |       |       |       |       |       |       |        |           |
|                          | MAXIMUM SNOW DEPTH (IN.)      |       |       |       |       |       |       |       |       |       |       |       |        |           |
| DATE OF OCCURRENCE       |                               |       |       |       |       |       |       |       |       |       |       |       |        |           |
| NUMBER OF DAYS WITH:     |                               |       |       |       |       |       |       |       |       |       |       |       |        |           |
| SNOWFALL ≥ 1.0           |                               |       |       |       |       |       |       |       |       |       |       |       |        |           |

# NORMALS, MEANS, AND EXTREMES

## SAN DIEGO, CA (SAN)

LATITUDE: 32° 44' 05" N      LONGITUDE: 117° 10' 07" W      ELEVATION (FT): GRND: 78      BARO: 81      TIME ZONE: PACIFIC (UTC + 8)      WBAN: 23188

| ELEMENT               |                             | POR  | JAN   | FEB   | MAR   | APR   | MAY   | JUN   | JUL   | AUG   | SEP   | OCT   | NOV   | DEC      | YEAR     |
|-----------------------|-----------------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|----------|
| TEMPERATURE °F        | NORMAL DAILY MAXIMUM        | 30   | 65.8  | 66.3  | 66.3  | 68.7  | 69.3  | 72.2  | 75.8  | 77.5  | 77.0  | 74.0  | 69.9  | 66.3     | 70.8     |
|                       | MEAN DAILY MAXIMUM          | 57   | 65.4  | 66.0  | 66.3  | 68.0  | 69.2  | 71.5  | 75.5  | 77.2  | 76.8  | 73.8  | 70.0  | 66.2     | 70.5     |
|                       | HIGHEST DAILY MAXIMUM       | 64   | 88    | 90    | 93    | 98    | 96    | 101   | 95    | 98    | 111   | 107   | 97    | 88       | 111      |
|                       | YEAR OF OCCURRENCE          |      | 1953  | 1995  | 1988  | 1989  | 1953  | 1979  | 1985  | 1955  | 1963  | 1961  | 1976  | 1963     | SEP 1963 |
|                       | MEAN OF EXTREME MAXS.       | 57   | 78.3  | 78.4  | 79.2  | 81.1  | 79.1  | 81.1  | 83.3  | 85.6  | 90.3  | 88.0  | 83.0  | 78.0     | 82.1     |
|                       | NORMAL DAILY MINIMUM        | 30   | 49.7  | 51.5  | 53.6  | 56.4  | 59.8  | 62.6  | 65.9  | 67.4  | 66.1  | 61.2  | 53.6  | 48.9     | 58.1     |
|                       | MEAN DAILY MINIMUM          | 57   | 48.6  | 50.3  | 52.3  | 55.4  | 58.7  | 61.5  | 65.1  | 66.4  | 64.9  | 60.2  | 53.3  | 48.6     | 57.1     |
|                       | LOWEST DAILY MINIMUM        | 64   | 29    | 36    | 39    | 41    | 48    | 51    | 55    | 57    | 51    | 43    | 38    | 34       | 29       |
|                       | YEAR OF OCCURRENCE          |      | 1949  | 1949  | 1971  | 1945  | 1967  | 1967  | 1948  | 1944  | 1948  | 1971  | 1964  | 1987     | JAN 1949 |
|                       | MEAN OF EXTREME MINS.       | 57   | 40.5  | 43.4  | 45.7  | 49.3  | 53.4  | 57.4  | 61.4  | 62.5  | 59.3  | 52.9  | 45.3  | 40.9     | 51.0     |
|                       | NORMAL DRY BULB             | 30   | 57.8  | 58.9  | 60.0  | 62.6  | 64.6  | 67.4  | 70.9  | 72.5  | 71.6  | 67.6  | 61.8  | 57.6     | 64.4     |
|                       | MEAN DRY BULB               | 57   | 56.9  | 58.0  | 59.3  | 61.7  | 64.0  | 66.5  | 70.5  | 71.8  | 70.9  | 67.0  | 61.8  | 57.5     | 63.8     |
|                       | MEAN WET BULB               | 20   | 51.4  | 52.4  | 54.2  | 56.1  | 58.8  | 61.0  | 64.5  | 66.0  | 65.0  | 61.0  | 54.7  | 50.5     | 58.0     |
|                       | MEAN DEW POINT              | 20   | 45.1  | 46.6  | 49.0  | 51.4  | 54.9  | 57.7  | 61.6  | 63.1  | 61.8  | 56.9  | 48.7  | 43.7     | 53.4     |
|                       | NORMAL NO. DAYS WITH:       |      |       |       |       |       |       |       |       |       |       |       |       |          |          |
| MAXIMUM ≥ 90°         | 30                          | 0.0  | *     | 0.1   | 0.2   | *     | 0.5   | 0.2   | 0.3   | 1.3   | 0.7   | 0.2   | 0.0   | 3.5      |          |
| 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   | 227   | 176   | 160   | 90    | 47    | 10    | 0     | 0     | 1     | 12    | 109   | 231      | 1063     |
|                       | NORMAL COOLING DEG. DAYS    | 30   | 2     | 4     | 5     | 17    | 32    | 81    | 183   | 230   | 199   | 97    | 15    | 1        | 866      |
| RH                    | NORMAL (PERCENT)            | 30   | 67    | 69    | 70    | 69    | 73    | 75    | 76    | 76    | 75    | 72    | 67    | 65       | 71       |
|                       | HOUR 04 LST                 | 30   | 73    | 76    | 77    | 77    | 79    | 82    | 83    | 83    | 82    | 78    | 73    | 70       | 78       |
|                       | HOUR 10 LST                 | 30   | 58    | 61    | 62    | 61    | 66    | 69    | 70    | 70    | 67    | 63    | 55    | 54       | 63       |
|                       | HOUR 16 LST                 | 30   | 59    | 60    | 62    | 60    | 65    | 67    | 67    | 67    | 67    | 66    | 61    | 58       | 63       |
|                       | HOUR 22 LST                 | 30   | 73    | 74    | 74    | 74    | 77    | 79    | 80    | 81    | 79    | 77    | 73    | 71       | 76       |
| S                     | PERCENT POSSIBLE SUNSHINE   | 56   | 72    | 71    | 70    | 68    | 59    | 58    | 68    | 70    | 69    | 68    | 75    | 73       | 68       |
| W/O                   | MEAN NO. DAYS WITH:         |      |       |       |       |       |       |       |       |       |       |       |       |          |          |
|                       | HEAVY FOG (VISBY ≤ 1/4 MI)  | 64   | 2.9   | 2.5   | 1.5   | 1.1   | 0.6   | 0.6   | 0.6   | 0.6   | 2.2   | 3.1   | 3.3   | 3.8      | 22.8     |
|                       | THUNDERSTORMS               | 64   | 0.2   | 0.3   | 0.4   | 0.2   | 0.1   | 0.1   | 0.2   | 0.3   | 0.3   | 0.3   | 0.3   | 0.4      | 3.1      |
| CLOUDINESS            | MEAN:                       |      |       |       |       |       |       |       |       |       |       |       |       |          |          |
|                       | SUNRISE-SUNSET (OKTAS)      | 56   | 4.1   | 4.2   | 4.2   | 4.2   | 4.6   | 4.4   | 3.6   | 3.2   | 3.2   | 3.5   | 3.3   | 3.7      | 3.9      |
|                       | MIDNIGHT-MIDNIGHT (OKTAS)   | 32   | 3.9   | 4.4   | 4.5   | 4.1   | 5.1   | 5.0   | 4.3   | 4.0   | 4.0   | 3.8   | 3.4   | 3.5      | 4.2      |
|                       | MEAN NO. DAYS WITH:         |      |       |       |       |       |       |       |       |       |       |       |       |          |          |
| CLEAR                 | 56                          | 12.3 | 10.1  | 10.8  | 10.3  | 8.5   | 9.3   | 12.7  | 15.1  | 15.0  | 13.7  | 14.7  | 13.6  | 146.1    |          |
| PARTLY CLOUDY         | 56                          | 7.6  | 7.6   | 9.5   | 10.0  | 11.3  | 11.8  | 12.8  | 11.5  | 9.5   | 9.7   | 8.0   | 7.7   | 117.0    |          |
| CLOUDY                | 56                          | 11.1 | 10.5  | 10.7  | 9.7   | 11.2  | 9.0   | 5.0   | 4.4   | 5.5   | 7.6   | 7.3   | 9.6   | 101.6    |          |
| PR                    | MEAN STATION PRESSURE (IN)  | 31   | 30.04 | 30.03 | 29.98 | 29.96 | 29.92 | 29.89 | 29.90 | 29.89 | 29.87 | 29.93 | 30.00 | 30.03    | 29.95    |
|                       | MEAN SEA-LEVEL PRES. (IN)   | 20   | 30.06 | 30.06 | 30.02 | 29.97 | 29.95 | 29.92 | 29.93 | 29.92 | 29.90 | 29.95 | 30.03 | 30.07    | 29.98    |
| WINDS                 | MEAN SPEED (MPH)            | 41   | 6.0   | 6.6   | 7.4   | 7.8   | 7.8   | 7.8   | 7.6   | 7.5   | 7.2   | 6.6   | 6.0   | 5.6      | 7.0      |
|                       | PREVAIL. DIR (TENS OF DEGS) | 26   | 30    | 30    | 30    | 29    | 30    | 29    | 30    | 29    | 30    | 30    | 30    | 30       | 30       |
|                       | MAXIMUM 2-MINUTE:           |      |       |       |       |       |       |       |       |       |       |       |       |          |          |
|                       | SPEED (MPH)                 | 8    | 31    | 38    | 38    | 32    | 26    | 23    | 20    | 20    | 22    | 30    | 35    | 46       | 46       |
|                       | DIR. (TENS OF DEGS)         |      | 14    | 17    | 25    | 26    | 17    | 25    | 28    | 29    | 29    | 27    | 33    | 18       | 18       |
|                       | YEAR OF OCCURRENCE          |      | 2001  | 1998  | 2000  | 1999  | 1998  | 2000  | 1999  | 1997  | 2003  | 2004  | 2004  | 2004     | DEC 2004 |
|                       | MAXIMUM 5-SECOND:           |      |       |       |       |       |       |       |       |       |       |       |       |          |          |
| SPEED (MPH)           | 8                           | 38   | 46    | 45    | 37    | 32    | 25    | 23    | 25    | 25    | 39    | 45    | 58    | 58       |          |
| DIR. (TENS OF DEGS)   |                             | 07   | 14    | 25    | 25    | 18    | 24    | 27    | 30    | 27    | 20    | 31    | 17    | 17       |          |
| YEAR OF OCCURRENCE    |                             | 2003 | 2001  | 2000  | 1999  | 1998  | 2000  | 1997  | 2002  | 2004  | 2004  | 2004  | 2004  | DEC 2004 |          |
| PRECIPITATION         | NORMAL (IN)                 | 30   | 2.28  | 2.04  | 2.26  | 0.75  | 0.20  | 0.09  | 0.03  | 0.09  | 0.21  | 0.44  | 1.07  | 1.31     | 10.77    |
|                       | MAXIMUM MONTHLY (IN)        | 64   | 9.09  | 7.65  | 6.96  | 3.71  | 1.79  | 0.87  | 0.24  | 2.13  | 1.90  | 4.98  | 5.82  | 7.60     | 9.09     |
|                       | YEAR OF OCCURRENCE          |      | 1993  | 1998  | 1991  | 1988  | 1977  | 1990  | 1991  | 1977  | 1963  | 2004  | 1965  | 1943     | JAN 1993 |
|                       | MINIMUM MONTHLY (IN)        | 64   | T     | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.01     | 0.00     |
|                       | YEAR OF OCCURRENCE          |      | 1976  | 1967  | 1997  | 1993  | 1952  | 1981  | 1982  | 1981  | 1979  | 1967  | 1980  | 2000     | MAR 1997 |
|                       | MAXIMUM IN 24 HOURS (IN)    | 64   | 2.65  | 2.61  | 2.40  | 1.98  | 1.50  | 0.82  | 0.23  | 2.13  | 1.00  | 2.71  | 2.44  | 3.07     | 3.07     |
|                       | YEAR OF OCCURRENCE          |      | 1978  | 1979  | 1952  | 1988  | 1977  | 1990  | 1991  | 2013  | 1986  | 2004  | 1944  | 1945     | DEC 1945 |
|                       | NORMAL NO. DAYS WITH:       |      |       |       |       |       |       |       |       |       |       |       |       |          |          |
| PRECIPITATION ≥ 0.01  | 30                          | 7.2  | 6.6   | 7.2   | 4.1   | 2.0   | 1.1   | 0.6   | 0.6   | 1.5   | 2.8   | 4.0   | 5.2   | 42.9     |          |
| PRECIPITATION ≥ 1.00  | 30                          | 0.5  | 0.6   | 0.4   | 0.1   | *     | 0.0   | 0.0   | *     | 0.0   | 0.0   | 0.2   | 0.2   | 2.0      |          |
| 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)        | 59   | T     | 0.0   | T     | T     | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | T     | T        | T        |
|                       | YEAR OF OCCURRENCE          |      | 1949  |       | 1985  | 1999  |       |       |       |       |       |       | 1985  | 1967     | APR 1999 |
|                       | MAXIMUM IN 24 HOURS (IN)    | 59   | T     | 0.0   | T     | T     | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | T     | T        | T        |
|                       | YEAR OF OCCURRENCE          |      | 1949  |       | 1985  | 1999  |       |       |       |       |       |       | 1985  | 1967     | APR 1999 |
|                       | MAXIMUM SNOW DEPTH (IN)     | 51   | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0        | 0        |
|                       | YEAR OF OCCURRENCE          |      |       |       |       |       |       |       |       |       |       |       |       |          |          |
| NORMAL NO. DAYS WITH: |                             |      |       |       |       |       |       |       |       |       |       |       |       |          |          |
| SNOWFALL ≥ 1.0        | 30                          | 0.0  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0      |          |

PRECIPITATION (inches) 2004 SAN DIEGO, CA (SAN)

| YEAR            | JAN  | FEB  | MAR  | APR  | MAY  | JUN  | JUL  | AUG  | SEP  | OCT  | NOV  | DEC  | ANNUAL |
|-----------------|------|------|------|------|------|------|------|------|------|------|------|------|--------|
| 1975            | 0.49 | 0.96 | 3.79 | 2.00 | 0.01 | 0.02 | T    | T    | T    | 0.09 | 0.64 | 0.37 | 8.37   |
| 1976            | T    | 5.40 | 0.99 | 1.33 | 0.27 | 0.02 | 0.02 | 0.01 | 1.00 | 0.38 | 0.75 | 1.06 | 11.23  |
| 1977            | 2.36 | 0.06 | 0.61 | 0.01 | 1.79 | 0.03 | T    | 2.13 | T    | 0.50 | 0.05 | 1.67 | 9.21   |
| 1978            | 5.95 | 2.64 | 5.00 | 0.73 | 0.04 | T    | 0.00 | T    | 0.72 | 0.05 | 2.09 | 2.19 | 19.41  |
| 1979            | 5.82 | 0.85 | 3.71 | 0.02 | 0.09 | 0.01 | 0.09 | 0.01 | 0.00 | 0.73 | 0.27 | 0.02 | 11.62  |
| 1980            | 5.58 | 4.47 | 2.71 | 1.18 | 0.65 | 0.01 | T    | 0.00 | T    | 0.05 | 0.00 | 0.31 | 14.96  |
| 1981            | 1.48 | 2.26 | 3.74 | 0.22 | 0.04 | 0.00 | T    | 0.00 | 0.03 | 0.14 | 1.79 | 0.54 | 10.24  |
| 1982            | 2.71 | 0.88 | 4.74 | 0.62 | 0.01 | 0.04 | 0.00 | T    | 0.38 | 0.05 | 2.10 | 1.43 | 12.96  |
| 1983            | 2.10 | 3.88 | 6.57 | 1.74 | 0.01 | T    | 0.01 | 0.39 | 0.21 | 0.40 | 1.94 | 1.53 | 18.78  |
| 1984            | 0.46 | 0.09 | 0.04 | 0.62 | 0.00 | 0.04 | 0.19 | 0.06 | T    | 0.29 | 2.37 | 4.55 | 8.71   |
| 1985            | 0.52 | 0.77 | 0.58 | 0.32 | T    | T    | 0.00 | T    | 0.20 | 0.29 | 4.92 | 1.06 | 8.66   |
| 1986            | 0.75 | 2.59 | 3.12 | 1.17 | 0.00 | T    | 0.01 | 0.00 | 1.04 | 1.39 | 1.16 | 0.95 | 12.18  |
| 1987            | 1.68 | 1.53 | 1.04 | 0.78 | 0.03 | T    | 0.03 | 0.01 | 0.70 | 1.74 | 1.33 | 2.73 | 11.60  |
| 1988            | 0.89 | 1.37 | 0.59 | 3.71 | 0.08 | 0.00 | T    | T    | T    | T    | 1.39 | 2.23 | 10.26  |
| 1989            | 0.42 | 0.70 | 0.69 | 0.12 | 0.04 | 0.06 | 0.00 | T    | 0.23 | 0.47 | 0.09 | 1.01 | 3.83   |
| 1990            | 2.52 | 1.13 | 0.25 | 0.76 | 0.51 | 0.87 | T    | 0.01 | T    | T    | 0.65 | 0.59 | 7.29   |
| 1991            | 1.06 | 2.46 | 6.96 | 0.05 | 0.01 | T    | 0.24 | 0.01 | 0.28 | 0.69 | 0.05 | 1.70 | 13.51  |
| 1992            | 1.81 | 3.34 | 4.42 | 0.28 | 0.07 | 0.04 | 0.03 | 0.05 | 0.00 | 0.18 | 0.03 | 2.56 | 12.81  |
| 1993            | 9.09 | 4.73 | 1.22 | 0.00 | 0.01 | 0.41 | 0.03 | T    | T    | 0.22 | 0.77 | 0.78 | 17.26  |
| 1994            | 0.70 | 2.75 | 3.67 | 0.93 | 0.07 | T    | 0.03 | 0.01 | T    | 0.01 | 0.46 | 0.80 | 9.43   |
| 1995            | 8.06 | 1.93 | 3.81 | 0.96 | 0.59 | 0.46 | 0.05 | 0.00 | T    | T    | 0.30 | 0.88 | 17.04  |
| 1996            | 1.52 | 0.88 | 1.10 | 0.36 | 0.02 | 0.00 | 0.09 | T    | 0.03 | 0.94 | 1.70 | 0.63 | 7.27   |
| 1997            | 3.02 | 0.31 | 0.00 | 0.28 | T    | T    | T    | 0.00 | 0.85 | 0.02 | 1.17 | 1.35 | 7.00   |
| 1998            | 2.68 | 7.65 | 2.21 | 1.11 | 0.64 | 0.10 | 0.20 | T    | 0.03 | 0.08 | 0.69 | 0.66 | 16.05  |
| 1999            | 1.54 | 0.70 | 1.09 | 1.62 | 0.06 | 0.04 | T    | 0.00 | 0.02 | 0.00 | 0.04 | 0.32 | 5.43   |
| 2000            | 0.17 | 3.67 | 1.00 | 0.54 | T    | T    | 0.00 | 0.01 | T    | 1.24 | 0.26 | 0.01 | 6.90   |
| 2001            | 3.28 | 2.38 | 0.63 | 0.76 | 0.01 | 0.00 | T    | 0.00 | 0.00 | 0.00 | 0.95 | 0.46 | 8.47   |
| 2002            | 0.32 | 0.17 | 0.46 | 0.63 | T    | T    | 0.00 | T    | 0.31 | 0.04 | 0.32 | 1.98 | 4.23   |
| 2003            | 0.02 | 4.88 | 1.36 | 1.41 | 0.30 | T    | T    | 0.00 | T    | T    | 0.60 | 0.61 | 9.18   |
| 2004            | 0.34 | 2.81 | 0.22 | 0.60 | T    | 0.00 | 0.00 | 0.00 | T    | 4.98 | 0.33 | 4.01 | 13.29  |
| POR=<br>155 YRS | 2.16 | 1.75 | 1.89 | 0.80 | 0.20 | 0.08 | 0.03 | 0.08 | 0.20 | 0.38 | 1.14 | 1.37 | 10.08  |

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AVERAGE TEMPERATURE (°F) 2004 SAN DIEGO, CA (SAN)

| YEAR            | JAN  | FEB  | MAR  | APR  | MAY  | JUN  | JUL  | AUG  | SEP  | OCT  | NOV  | DEC  | ANNUAL |
|-----------------|------|------|------|------|------|------|------|------|------|------|------|------|--------|
| 1975            | 56.1 | 56.4 | 57.5 | 58.7 | 62.2 | 65.0 | 69.4 | 68.9 | 71.5 | 65.9 | 60.4 | 56.9 | 62.4   |
| 1976            | 58.9 | 59.6 | 60.3 | 61.0 | 65.2 | 69.7 | 71.1 | 72.4 | 73.8 | 71.2 | 66.8 | 60.7 | 65.9   |
| 1977            | 60.3 | 61.7 | 57.5 | 61.4 | 61.9 | 65.8 | 71.6 | 73.1 | 72.2 | 68.9 | 64.9 | 63.3 | 65.2   |
| 1978            | 61.0 | 60.9 | 64.3 | 63.4 | 68.2 | 71.3 | 71.6 | 72.9 | 74.0 | 70.1 | 61.7 | 55.2 | 66.2   |
| 1979            | 56.9 | 56.9 | 60.1 | 63.4 | 65.6 | 70.2 | 71.8 | 73.9 | 76.3 | 68.7 | 62.4 | 60.6 | 65.6   |
| 1980            | 61.1 | 63.5 | 61.5 | 63.9 | 63.8 | 68.5 | 72.9 | 74.2 | 70.4 | 67.3 | 62.7 | 60.8 | 65.9   |
| 1981            | 61.3 | 62.2 | 61.1 | 64.4 | 67.3 | 72.9 | 75.6 | 75.8 | 73.7 | 67.1 | 63.5 | 60.3 | 67.1   |
| 1982            | 56.6 | 60.7 | 60.5 | 63.8 | 65.8 | 66.7 | 71.9 | 73.5 | 73.1 | 70.1 | 62.1 | 57.4 | 65.2   |
| 1983            | 60.7 | 60.9 | 62.0 | 62.4 | 66.2 | 68.1 | 72.6 | 77.4 | 76.8 | 72.2 | 64.4 | 60.6 | 67.0   |
| 1984            | 61.2 | 60.2 | 63.7 | 64.3 | 68.1 | 69.9 | 77.2 | 76.6 | 78.9 | 68.5 | 61.4 | 56.7 | 67.2   |
| 1985            | 57.0 | 57.2 | 58.9 | 63.6 | 64.8 | 69.0 | 75.3 | 72.4 | 69.8 | 67.9 | 60.1 | 58.0 | 64.5   |
| 1986            | 61.0 | 58.9 | 60.5 | 62.8 | 64.6 | 67.4 | 69.6 | 71.8 | 66.9 | 65.5 | 62.8 | 57.6 | 64.1   |
| 1987            | 55.4 | 58.0 | 59.1 | 63.4 | 64.7 | 65.8 | 67.1 | 69.9 | 69.9 | 69.5 | 61.8 | 53.9 | 63.2   |
| 1988            | 56.7 | 59.9 | 61.6 | 62.4 | 63.9 | 64.9 | 70.4 | 71.0 | 70.0 | 66.7 | 60.1 | 56.0 | 63.6   |
| 1989            | 54.7 | 56.7 | 59.8 | 65.6 | 63.7 | 66.0 | 70.1 | 71.0 | 70.4 | 66.3 | 63.1 | 58.7 | 63.8   |
| 1990            | 56.6 | 55.2 | 58.7 | 63.2 | 64.3 | 69.0 | 72.3 | 71.6 | 71.7 | 68.6 | 62.7 | 55.6 | 64.1   |
| 1991            | 57.4 | 59.4 | 56.5 | 61.7 | 62.1 | 64.1 | 67.4 | 68.9 | 69.4 | 68.0 | 62.3 | 57.3 | 62.9   |
| 1992            | 57.4 | 61.1 | 60.4 | 67.0 | 68.0 | 68.1 | 71.8 | 74.9 | 72.4 | 68.2 | 62.6 | 55.3 | 65.6   |
| 1993            | 56.9 | 58.0 | 61.3 | 63.8 | 66.0 | 68.6 | 69.8 | 70.2 | 69.0 | 67.3 | 61.6 | 57.0 | 64.1   |
| 1994            | 57.9 | 56.5 | 60.4 | 61.0 | 62.1 | 68.1 | 69.5 | 74.0 | 72.5 | 66.8 | 56.4 | 55.8 | 63.4   |
| 1995            | 56.9 | 61.4 | 60.4 | 61.5 | 62.0 | 64.8 | 69.0 | 71.9 | 71.5 | 67.1 | 63.2 | 58.3 | 64.0   |
| 1996            | 57.6 | 58.8 | 60.1 | 64.6 | 66.8 | 67.8 | 70.0 | 72.8 | 70.6 | 64.3 | 61.6 | 57.8 | 64.4   |
| 1997            | 58.0 | 58.4 | 61.6 | 62.5 | 68.7 | 67.5 | 69.3 | 72.9 | 75.2 | 68.7 | 64.0 | 57.4 | 65.4   |
| 1998            | 58.2 | 57.3 | 59.3 | 59.6 | 62.8 | 65.7 | 68.8 | 72.8 | 70.3 | 65.7 | 59.7 | 55.4 | 63.0   |
| 1999            | 57.5 | 57.8 | 58.3 | 58.9 | 60.5 | 62.8 | 68.5 | 68.0 | 67.0 | 68.8 | 60.5 | 57.8 | 62.2   |
| 2000            | 58.2 | 59.0 | 58.1 | 62.4 | 64.6 | 68.2 | 69.2 | 72.0 | 70.5 | 65.1 | 58.4 | 58.1 | 63.7   |
| 2001            | 54.7 | 54.9 | 58.9 | 58.5 | 63.7 | 67.6 | 69.0 | 69.6 | 68.2 | 66.3 | 61.4 | 55.5 | 62.4   |
| 2002            | 55.7 | 57.5 | 57.7 | 59.6 | 61.9 | 64.7 | 67.8 | 68.9 | 70.1 | 64.2 | 63.4 | 56.8 | 62.4   |
| 2003            | 61.7 | 59.0 | 60.3 | 59.9 | 62.4 | 64.2 | 70.0 | 72.7 | 69.9 | 67.7 | 60.8 | 56.9 | 63.8   |
| 2004            | 56.9 | 56.7 | 62.6 | 64.4 | 68.5 | 67.8 | 72.1 | 70.8 | 72.6 | 65.4 | 60.1 | 57.8 | 64.6   |
| POR=<br>130 YRS | 55.7 | 56.6 | 58.0 | 60.3 | 62.6 | 65.2 | 68.8 | 70.2 | 69.0 | 65.2 | 60.8 | 57.0 | 62.5   |

HEATING DEGREE DAYS (base 65°F) 2004 SAN DIEGO, CA (SAN)

| YEAR    | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | TOTAL |
|---------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|
| 1975-76 | 0   | 0   | 0   | 19  | 141 | 246 | 196 | 150 | 148 | 115 | 16  | 0   | 1031  |
| 1976-77 | 0   | 0   | 0   | 0   | 39  | 129 | 143 | 94  | 224 | 103 | 88  | 3   | 823   |
| 1977-78 | 0   | 0   | 0   | 0   | 37  | 55  | 117 | 117 | 52  | 43  | 8   | 0   | 429   |
| 1978-79 | 0   | 0   | 0   | 0   | 102 | 297 | 244 | 219 | 153 | 45  | 20  | 6   | 1086  |
| 1979-80 | 0   | 0   | 0   | 4   | 75  | 136 | 117 | 50  | 104 | 61  | 43  | 1   | 591   |
| 1980-81 | 0   | 0   | 0   | 6   | 75  | 133 | 113 | 101 | 116 | 40  | 1   | 0   | 585   |
| 1981-82 | 0   | 0   | 0   | 9   | 57  | 136 | 258 | 119 | 139 | 64  | 9   | 2   | 793   |
| 1982-83 | 0   | 0   | 0   | 1   | 93  | 228 | 137 | 110 | 88  | 83  | 9   | 0   | 749   |
| 1983-84 | 0   | 0   | 0   | 0   | 66  | 130 | 123 | 134 | 51  | 43  | 4   | 0   | 551   |
| 1984-85 | 0   | 0   | 0   | 4   | 104 | 250 | 238 | 219 | 183 | 60  | 18  | 2   | 1078  |
| 1985-86 | 0   | 0   | 0   | 3   | 145 | 211 | 118 | 173 | 132 | 85  | 29  | 0   | 896   |
| 1986-87 | 0   | 0   | 7   | 10  | 66  | 223 | 291 | 197 | 178 | 72  | 21  | 6   | 1071  |
| 1987-88 | 0   | 0   | 0   | 0   | 98  | 338 | 250 | 147 | 125 | 85  | 53  | 22  | 1118  |
| 1988-89 | 0   | 0   | 0   | 4   | 141 | 275 | 313 | 237 | 158 | 37  | 40  | 14  | 1219  |
| 1989-90 | 0   | 0   | 1   | 13  | 67  | 188 | 252 | 268 | 185 | 52  | 39  | 1   | 1066  |
| 1990-91 | 0   | 0   | 0   | 3   | 88  | 284 | 227 | 152 | 254 | 104 | 96  | 28  | 1236  |
| 1991-92 | 0   | 0   | 0   | 24  | 96  | 231 | 228 | 115 | 136 | 8   | 1   | 0   | 839   |
| 1992-93 | 0   | 0   | 0   | 0   | 84  | 294 | 240 | 191 | 111 | 44  | 7   | 6   | 977   |
| 1993-94 | 0   | 0   | 0   | 4   | 103 | 242 | 214 | 235 | 147 | 116 | 85  | 1   | 1147  |
| 1994-95 | 0   | 0   | 0   | 12  | 249 | 276 | 242 | 106 | 136 | 105 | 87  | 24  | 1237  |
| 1995-96 | 0   | 0   | 0   | 3   | 49  | 200 | 223 | 171 | 146 | 54  | 6   | 0   | 852   |
| 1996-97 | 0   | 0   | 0   | 45  | 115 | 216 | 217 | 185 | 124 | 81  | 0   | 1   | 984   |
| 1997-98 | 0   | 0   | 0   | 2   | 65  | 227 | 203 | 208 | 172 | 155 | 69  | 9   | 1110  |
| 1998-99 | 1   | 0   | 0   | 13  | 152 | 293 | 224 | 198 | 200 | 189 | 132 | 64  | 1466  |
| 1999-00 | 4   | 0   | 3   | 3   | 130 | 217 | 212 | 171 | 206 | 82  | 23  | 0   | 1051  |
| 2000-01 | 0   | 0   | 0   | 27  | 191 | 208 | 314 | 281 | 183 | 191 | 39  | 5   | 1439  |
| 2001-02 | 0   | 0   | 0   | 4   | 107 | 289 | 283 | 208 | 219 | 154 | 101 | 18  | 1383  |
| 2002-03 | 0   | 0   | 1   | 36  | 63  | 248 | 117 | 163 | 151 | 150 | 82  | 33  | 1044  |
| 2003-04 | 0   | 0   | 0   | 5   | 122 | 243 | 247 | 236 | 99  | 43  | 0   | 0   | 995   |
| 2004-   | 0   | 0   | 0   | 30  | 142 | 218 |     |     |     |     |     |     |       |

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COOLING DEGREE DAYS (base 65°F) 2004 SAN DIEGO, CA (SAN)

| YEAR | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | ANNUAL |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------|
| 1975 | 0   | 0   | 0   | 0   | 1   | 18  | 142 | 124 | 201 | 54  | 8   | 0   | 548    |
| 1976 | 14  | 0   | 10  | 3   | 31  | 147 | 196 | 240 | 269 | 200 | 102 | 0   | 1212   |
| 1977 | 5   | 9   | 0   | 2   | 1   | 34  | 212 | 258 | 224 | 128 | 40  | 8   | 921    |
| 1978 | 1   | 7   | 38  | 4   | 115 | 194 | 213 | 251 | 276 | 166 | 11  | 0   | 1276   |
| 1979 | 0   | 0   | 10  | 6   | 46  | 169 | 216 | 283 | 348 | 124 | 5   | 8   | 1215   |
| 1980 | 2   | 13  | 3   | 35  | 15  | 110 | 253 | 289 | 170 | 86  | 15  | 7   | 998    |
| 1981 | 7   | 29  | 0   | 26  | 81  | 244 | 335 | 343 | 265 | 80  | 21  | 0   | 1431   |
| 1982 | 0   | 7   | 6   | 32  | 42  | 58  | 219 | 271 | 250 | 164 | 12  | 0   | 1061   |
| 1983 | 11  | 0   | 1   | 9   | 51  | 99  | 242 | 392 | 364 | 231 | 55  | 0   | 1455   |
| 1984 | 13  | 0   | 15  | 31  | 107 | 156 | 387 | 366 | 422 | 119 | 4   | 0   | 1620   |
| 1985 | 0   | 7   | 0   | 22  | 19  | 128 | 325 | 235 | 153 | 104 | 6   | 0   | 999    |
| 1986 | 2   | 11  | 4   | 29  | 23  | 78  | 152 | 218 | 73  | 31  | 9   | 0   | 630    |
| 1987 | 0   | 6   | 5   | 29  | 17  | 35  | 71  | 158 | 154 | 147 | 10  | 0   | 632    |
| 1988 | 0   | 5   | 28  | 16  | 25  | 26  | 176 | 193 | 161 | 64  | 0   | 5   | 699    |
| 1989 | 0   | 13  | 2   | 63  | 5   | 48  | 165 | 193 | 168 | 58  | 17  | 0   | 732    |
| 1990 | 0   | 0   | 2   | 6   | 21  | 127 | 233 | 211 | 209 | 123 | 25  | 0   | 957    |
| 1991 | 0   | 0   | 0   | 9   | 11  | 10  | 80  | 130 | 138 | 122 | 21  | 0   | 521    |
| 1992 | 0   | 12  | 1   | 72  | 99  | 100 | 216 | 313 | 228 | 106 | 20  | 0   | 1167   |
| 1993 | 0   | 0   | 4   | 12  | 47  | 119 | 155 | 170 | 126 | 81  | 8   | 0   | 722    |
| 1994 | 0   | 0   | 10  | 3   | 1   | 100 | 146 | 289 | 231 | 76  | 0   | 0   | 856    |
| 1995 | 0   | 14  | 1   | 8   | 1   | 27  | 133 | 223 | 199 | 75  | 2   | 0   | 683    |
| 1996 | 0   | 0   | 4   | 53  | 70  | 92  | 164 | 251 | 175 | 30  | 19  | 0   | 858    |
| 1997 | 6   | 4   | 23  | 12  | 119 | 83  | 138 | 252 | 314 | 123 | 40  | 2   | 1116   |
| 1998 | 0   | 0   | 1   | 0   | 6   | 34  | 127 | 250 | 167 | 40  | 0   | 0   | 625    |
| 1999 | 0   | 0   | 0   | 14  | 0   | 5   | 118 | 100 | 69  | 126 | 3   | 0   | 435    |
| 2000 | 8   | 5   | 0   | 8   | 19  | 101 | 137 | 226 | 170 | 39  | 0   | 1   | 714    |
| 2001 | 0   | 3   | 2   | 5   | 4   | 90  | 132 | 149 | 102 | 53  | 4   | 0   | 544    |
| 2002 | 0   | 5   | 0   | 0   | 9   | 16  | 94  | 125 | 157 | 18  | 23  | 0   | 447    |
| 2003 | 20  | 0   | 11  | 3   | 8   | 18  | 161 | 246 | 153 | 98  | 2   | 0   | 720    |
| 2004 | 0   | 0   | 32  | 30  | 115 | 92  | 226 | 186 | 235 | 48  | 2   | 1   | 967    |

SNOWFALL (inches) 2004 SAN DIEGO, CA (SAN)

| YEAR           | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | TOTAL |
|----------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|
| 1975-76        | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   |
| 1976-77        | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   |
| 1977-78        | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   |
| 1978-79        | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   |
| 1979-80        | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0   |
| 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 | T   | 0.0 | 0.0 | 0.0 | T     |
| 1985-86        | 0.0 | 0.0 | 0.0 | 0.0 | T   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | T     |
| 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 |     |     |     |     |     |     |     |     |     |     |     |       |
| 1997-98        |     |     |     | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | T   | 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 | T   | 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 |     |       |
| 2000-01        |     |     |     |     |     |     |     |     |     |     |     |     |       |
| 2001-02        |     |     |     |     |     |     |     |     |     |     |     |     |       |
| 2002-03        |     |     |     |     |     |     |     |     |     |     |     |     |       |
| 2003-04        |     |     |     |     |     |     |     |     |     |     |     |     |       |
| 2004-          |     |     |     |     |     |     |     |     |     |     |     |     |       |
| POR=<br>57 YRS | 0.0 | 0.0 | 0.0 | 0.0 | T   | T   | T   | 0.0 | T   | T   | 0.0 | 0.0 | T     |

WBAN : 23188

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> |
|--|---|

2004  
SAN DIEGO,  
CALIFORNIA (SAN)

The city of San Diego is located on San Diego Bay in the southwest corner of southern California. The prevailing winds and weather are tempered by the Pacific Ocean, with the result that summers are cool and winters warm in comparison with other places along the same general latitude. Temperatures of freezing or below have rarely occurred at the station since the record began in 1871, but hot weather, 90 degrees or above, is more frequent.

Dry easterly winds sometimes blow in the vicinity for several days at a time, bringing temperatures in the 90s and at times even in the 100s in the eastern sections of the city and outlying suburbs. At the National Weather Service station itself, however, there have been relatively few days on which 100 degrees or higher was reached.

As these hot winds are predominant in the fall, highest temperatures occur in the months of September and October. Records show that over 60 percent of the days with 90 degrees or higher have occurred in these two months. High temperatures are almost invariably accompanied by very low relative humidities, which often drop below 20 percent and occasionally below 10 percent.

A marked feature of the climate is the wide variation in temperature within short distances. In nearby valleys daytimes are much warmer in summer and nights noticeably cooler in winter, and freezing occurs much more frequently than in the city. Although records show unusually small daily temperature ranges, only about 15 degrees between the highest and lowest readings, a few miles inland these ranges increase to 30 degrees or more.

Strong winds and gales associated with Pacific, or tropical storms, are infrequent due to the latitude.

The seasonal rainfall is about 10 inches in the city, but increases with elevation and distance from the coast. In the mountains to the north and east the average is between 20 and 40 inches, depending on slope and elevation. Most of the precipitation falls in winter, except in the mountains where there is an occasional thunderstorm. Eighty-five percent of the rainfall occurs from November through March, but wide variations take place in monthly and seasonal totals. Infrequent measurable amounts of hail occur in San Diego, but snow is practically unknown at the Weather Service Office location. In each occurrence of snowfall only a trace was recorded officially, but in some locations amounts up to or slightly exceeding a half-inch fell, and remained on the ground for an hour or more.

As on the rest of the Pacific Coast, a dominant characteristic of spring and summer is the nighttime and early morning cloudiness. Low clouds form regularly and frequently extend inland over the coastal valleys and foothills, but they usually dissipate during the morning and the afternoons are generally clear.

Considerable fog occurs along the coast, but the amount decreases with distance inland. The fall and winter months are usually the foggiest. Thunderstorms are rare, averaging about three a year in the city. Visibilities are good as a rule. The sunshine is plentiful for a marine location, with a marked increase toward the interior.

# STATION LOCATION

SAN DIEGO, CALIFORNIA

| LOCATION   | Occupied From | Occupied To | Airline Distances and Directions from previous Location | LATITUDE<br>NORTH | LONGITUDE<br>WEST | ELEVATION ABOVE                 |        |         |              |          |                |                    |                  |                 |            | AUTOMATED OBSERVING EQUIPMENT *<br>REMARKS                   |                 |
|--|---------------|-------------|---|-------------------|-------------------|---------------------------------|--------|---------|--------------|----------|----------------|--------------------|------------------|-----------------|------------|--|-----------------|
|  |               |             |   |                   |                   | SEA LEVEL<br>GROUND TEMPERATURE | GROUND |         |              |          |                |                    |                  |                 | HYGROMETER |  | WIND INSTRUMENT |
|  |               |             |   |                   |                   |                                 | WIND   | EXTREME | PSYCHROMETER | SUNSHINE | TIPPING BUCKET | WEIGHING RAIN GAGE | 8 INCH RAIN GAGE | WIND INSTRUMENT |            |  |                 |
| *NOTE:<br><u>AIRPORT</u>                                       |               |             |   |                   |                   |                                 |        |         |              |          |                |                    |                  |                 |            |  |                 |
| Lindbergh Municipal AP<br>1.5 mi. NW of City Office            | 1/15/30       | 8/19/32     |   | 32°44'            | 117°10'           | 19                              | 24     | 6       | 5            |          |                |                    |                  |                 | s.         | Standby.   |                 |
| Lindbergh Field<br>Municipal Airport                           | 8/19/32       | 8/13/69     | 100 ft. NW  | 32°44'            | 117°10'           | d13                             | b21    | 20      | 19           |          | 27             |                    | 27               | c5              | b.         | 47 ft. to 12/18/36 and 63 ft. to 2/1/61.                     |                 |
| Port of San Diego<br>General Aviation Bldg.<br>Lindbergh Field | 8/13/69       | 8/01/96     | 200 ft. N   | 32°44'            | 117°10'           | 13                              | 20     | s37     | s36          | 49       | 36             |                    | s35              | e5<br>f5        | c.         | Commissioned 1600 ft. SSW of Administration Building 2/1/61. |                 |
| Lindbergh Field  | 08/01/96      | Present     | NA  | 32°44'            | 117°10'           | g78                             |        |         |              |          |                |                    |                  | S               | d.         | 19 ft. to 2/1/61.  |                 |
|  |               |             |   |                   |                   |                                 |        |         |              |          |                |                    |                  |                 | e.         | 3300 ft. WNW of previous site (moved 2/17/69).               |                 |
|  |               |             |   |                   |                   |                                 |        |         |              |          |                |                    |                  |                 | f.         | Type change 8/12/85.   |                 |
|  |               |             |   |                   |                   |                                 |        |         |              |          |                |                    |                  |                 | g.         | ASOS Commissioned 08/01/96<br>Ground elevation.              |                 |

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