

2003

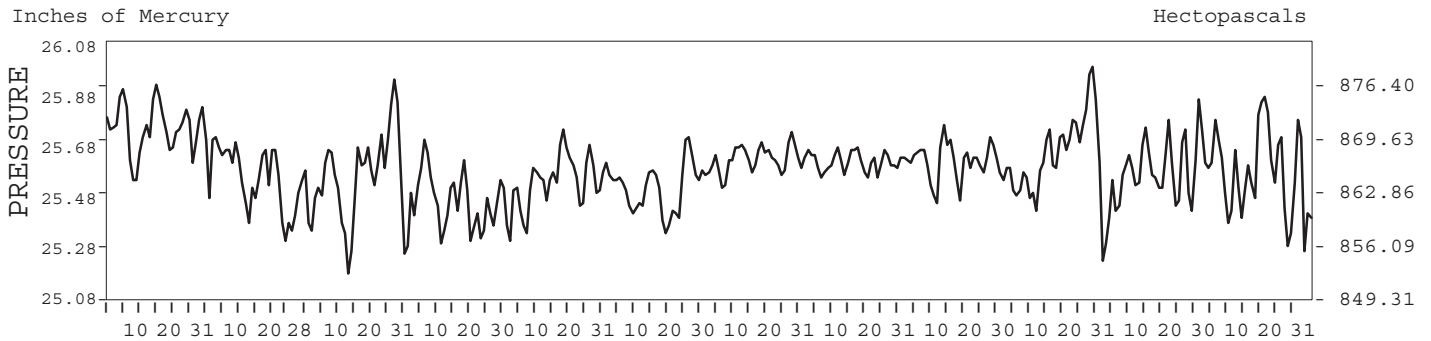
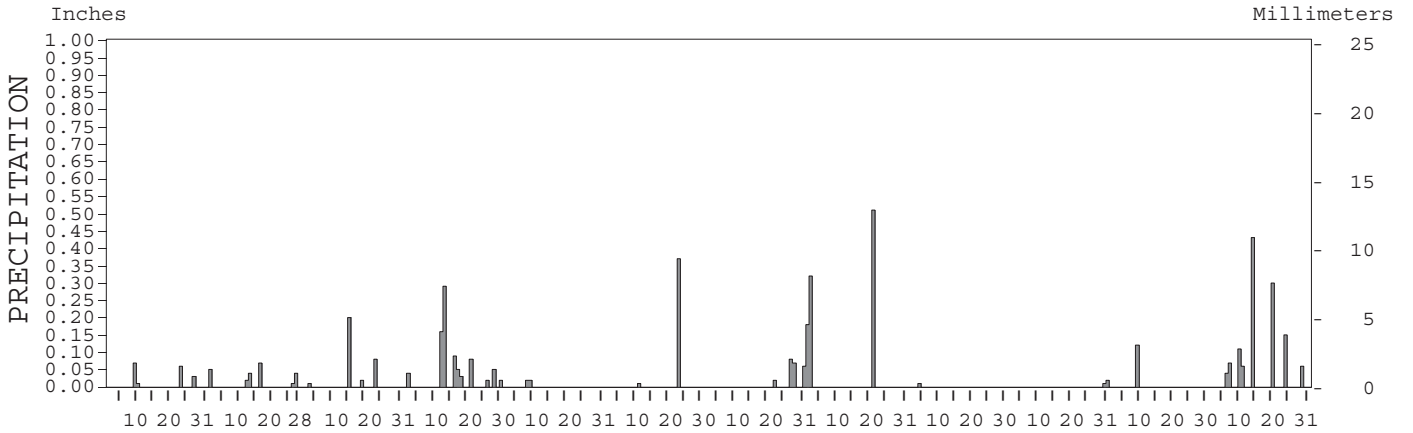
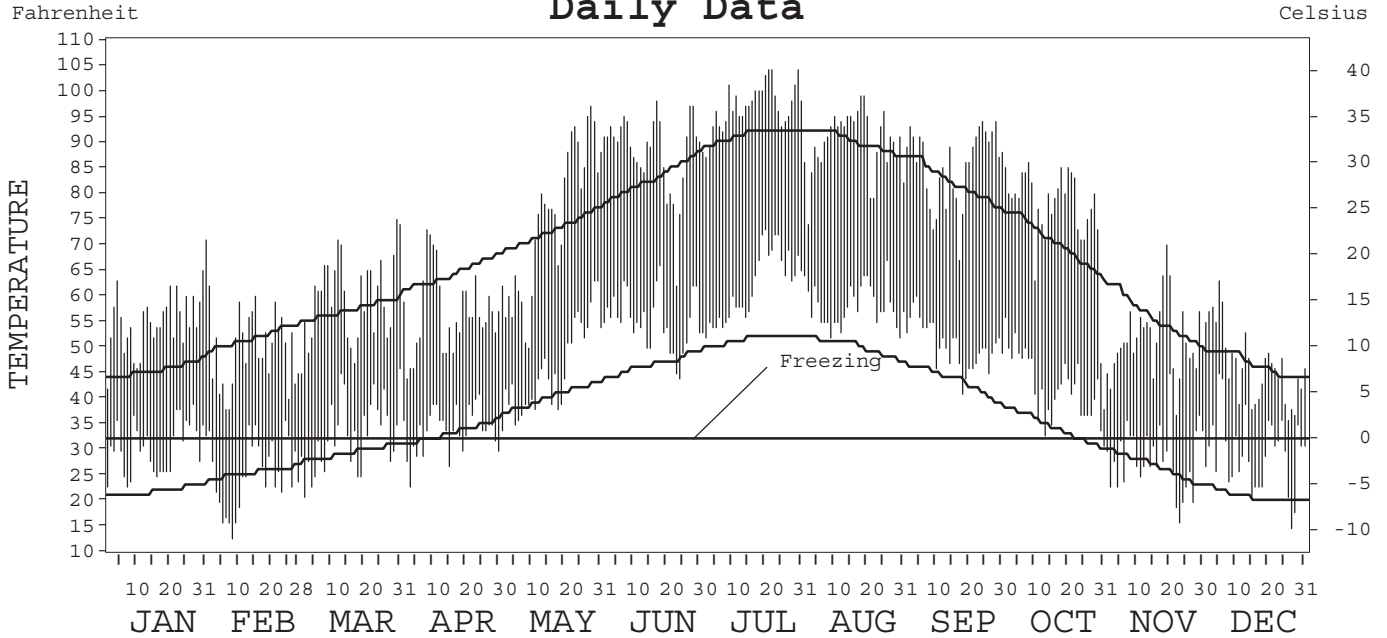
LOCAL CLIMATOLOGICAL DATA  
ANNUAL SUMMARY WITH COMPARATIVE DATA



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RENO,  
NEVADA (RNO)

Daily Data



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*Thomas R. Karl*

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| NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION | NATIONAL ENVIRONMENTAL SATELLITE, DATA, AND INFORMATION SERVICE | NATIONAL CLIMATIC DATA CENTER ASHEVILLE, NORTH CAROLINA | DIRECTOR NATIONAL CLIMATIC DATA CENTER |
|---|---|---|--|

# METEOROLOGICAL DATA FOR 2003

## RENO, NV (RNO)

LATITUDE: 39° 29' 02" N      LONGITUDE: 119° 46' 16" W      ELEVATION (FT): GRND: 4404      BARO: 4407      TIME ZONE: PACIFIC (UTC + 8)      WBAN: 23185

| ELEMENT              |                               | JAN   | FEB   | MAR   | APR   | MAY   | JUN   | JUL   | AUG   | SEP   | OCT   | NOV   | DEC    | YEAR    |    |
|----------------------|-------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|---------|----|
| TEMPERATURE °F       | MEAN DAILY MAXIMUM            | 55.4  | 49.7  | 59.9  | 56.9  | 74.8  | 88.1  | 96.7  | 90.0  | 85.5  | 76.2  | 51.6  | 46.7   | 69.3    |    |
|                      | HIGHEST DAILY MAXIMUM         | 71    | 62    | 75    | 73    | 97    | 98    | 104   | 99    | 94    | 86    | 70    | 63     | 104     |    |
|                      | DATE OF OCCURRENCE            | 31    | 01    | 30    | 08    | 28    | 17    | 30+   | 19+   | 28+   | 08    | 19    | 05     | JUL 30+ |    |
|                      | MEAN DAILY MINIMUM            | 30.7  | 25.4  | 33.1  | 34.0  | 45.9  | 55.1  | 61.7  | 58.1  | 50.6  | 42.5  | 28.4  | 29.5   | 41.3    |    |
|                      | LOWEST DAILY MINIMUM          | 23    | 13    | 21    | 23    | 34    | 44    | 52    | 52    | 41    | 31    | 16    | 15     | 13      |    |
|                      | DATE OF OCCURRENCE            | 01+   | 08    | 02    | 03    | 01    | 24    | 02    | 30+   | 18    | 31    | 23    | 27     | FEB 08  |    |
|                      | AVERAGE DRY BULB              | 43.1  | 37.6  | 46.5  | 45.5  | 60.4  | 71.6  | 79.2  | 74.1  | 68.1  | 59.4  | 40.0  | 38.1   | 55.3    |    |
|                      | MEAN WET BULB                 | 36.9  | 30.5  | 37.2  | 36.6  | 45.8  | 53.5  | 58.7  | 57.4  | 52.0  | 46.0  | 34.1  | 33.3   | 43.5    |    |
|                      | MEAN DEW POINT                | 30.3  | 19.7  | 23.9  | 24.9  | 30.1  | 37.6  | 43.2  | 44.8  | 38.1  | 33.0  | 26.2  | 27.5   | 31.6    |    |
|                      | NUMBER OF DAYS WITH:          |       |       |       |       |       |       |       |       |       |       |       |        |         |    |
|                      | MAXIMUM ≥ 90°                 | 0     | 0     | 0     | 0     | 6     | 17    | 28    | 19    | 11    | 0     | 0     | 0      | 0       | 81 |
|                      | MAXIMUM ≤ 32°                 | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0      | 0       | 0  |
|                      | MINIMUM ≤ 32°                 | 18    | 23    | 15    | 9     | 0     | 0     | 0     | 0     | 0     | 1     | 21    | 22     | 109     |    |
| MINIMUM ≤ 0°         | 0                             | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0      |         |    |
| H/C                  | HEATING DEGREE DAYS           | 673   | 763   | 568   | 578   | 224   | 17    | 0     | 0     | 20    | 181   | 744   | 825    | 4593    |    |
|                      | COOLING DEGREE DAYS           | 0     | 0     | 0     | 0     | 90    | 223   | 449   | 292   | 119   | 13    | 0     | 0      | 1186    |    |
| RH                   | MEAN (PERCENT)                | 66    | 53    | 46    | 48    | 36    | 31    | 30    | 40    | 36    | 41    | 61    | 69     | 46      |    |
|                      | HOUR 04 LST                   | 83    | 70    | 63    | 62    | 52    | 47    | 45    | 59    | 54    | 58    | 75    | 79     | 62      |    |
|                      | HOUR 10 LST                   | 67    | 50    | 43    | 40    | 29    | 23    | 22    | 34    | 31    | 35    | 60    | 69     | 42      |    |
|                      | HOUR 16 LST                   | 43    | 33    | 28    | 35    | 23    | 21    | 20    | 24    | 23    | 26    | 43    | 53     | 31      |    |
|                      | HOUR 22 LST                   | 69    | 57    | 47    | 53    | 38    | 32    | 31    | 40    | 35    | 42    | 63    | 72     | 48      |    |
| S                    | PERCENT POSSIBLE SUNSHINE     |       |       |       |       |       |       |       |       |       |       |       |        |         |    |
| W/O                  | NUMBER OF DAYS WITH:          |       |       |       |       |       |       |       |       |       |       |       |        |         |    |
|                      | HEAVY FOG (VISBY ≤ 1/4 MI)    | 0     | 0     | 0     | 1     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 2      | 3       |    |
|                      | THUNDERSTORMS                 | 0     | 0     | 0     | 0     | 0     | 1     | 5     | 3     | 1     | 0     | 0     | 0      | 10      |    |
| 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.)     | 25.76 | 25.56 | 25.57 | 25.46 | 25.54 | 25.52 | 25.63 | 25.62 | 25.62 | 25.63 | 25.60 | 25.58  | 25.59   |    |
|                      | MEAN SEA-LEVEL PRESS. (IN.)   | 30.25 | 30.04 | 30.01 | 29.89 |       | 29.84 | 29.94 | 29.95 | 29.97 | 30.03 | 30.08 | 30.07  |         |    |
| WINDS                | RESULTANT SPEED (MPH)         | 0.2   | 0.7   | 2.6   | 3.5   | 4.3   | 4.3   | 2.0   | 2.4   | 1.1   | 1.1   | 1.3   | 1.7    | 1.8     |    |
|                      | RES. DIR. (TENS OF DEGS.)     | 20    | 36    | 25    | 23    | 27    | 27    | 29    | 26    | 26    | 31    | 30    | 19     | 26      |    |
|                      | MEAN SPEED (MPH)              | 2.9   | 4.9   | 8.5   | 9.4   | 8.1   | 7.5   | 7.0   | 6.3   | 5.1   | 4.4   | 5.0   | 5.7    | 6.2     |    |
|                      | PREVAIL. DIR. (TENS OF DEGS.) | 27    | 32    | 27    | 27    | 27    | 27    | 27    | 29    | 28    | 28    | 28    | 18     | 28      |    |
|                      | MAXIMUM 2-MINUTE WIND:        |       |       |       |       |       |       |       |       |       |       |       |        |         |    |
|                      | SPEED (MPH)                   | 28    | 40    | 43    | 40    | 37    | 35    | 36    | 29    | 32    | 36    | 36    | 41     | 43      |    |
|                      | DIR. (TENS OF DEGS.)          | 17    | 17    | 19    | 18    | 15    | 27    | 28    | 28    | 21    | 29    | 20    | 19     | 19      |    |
|                      | DATE OF OCCURRENCE            | 27+   | 16    | 13    | 01    | 23    | 19    | 31    | 11+   | 03    | 02    | 19    | 14     | MAR 13  |    |
|                      | MAXIMUM 5-SECOND WIND:        |       |       |       |       |       |       |       |       |       |       |       |        |         |    |
|                      | SPEED (MPH)                   | 32    | 53    | 53    | 49    | 43    | 43    | 53    | 36    | 37    | 43    | 43    | 49     | 53      |    |
| DIR. (TENS OF DEGS.) | 18                            | 18    | 19    | 16    | 16    | 27    | 26    | 27    | 20    | 29    | 19    | 17    | 26     |         |    |
| DATE OF OCCURRENCE   | 27+                           | 16    | 13    | 24    | 23    | 19    | 22    | 11+   | 03    | 02    | 19+   | 06    | JUL 22 |         |    |
| PRECIPITATION        | WATER EQUIVALENT:             |       |       |       |       |       |       |       |       |       |       |       |        |         |    |
|                      | TOTAL (IN.)                   | 0.17  | 0.23  | 0.31  | 0.83  | 0.04  | 0.38  | 0.23  | 1.01  | 0.01  | 0.03  | 0.12  | 1.22   | 4.58    |    |
|                      | GREATEST 24-HOUR (IN.)        | 0.07  | 0.07  | 0.20  | 0.45  | 0.02  | 0.37  | 0.08  | 0.51  | 0.01  | 0.02  | 0.12  | 0.43   | 0.51    |    |
|                      | DATE OF OCCURRENCE            | 09    | 16    | 15    | 12-13 | 09+   | 23    | 27    | 21    | 04    | 31    | 09    | 14     | AUG 21  |    |
|                      | NUMBER OF DAYS WITH:          |       |       |       |       |       |       |       |       |       |       |       |        |         |    |
|                      | PRECIPITATION ≥ 0.01          | 4     | 6     | 4     | 10    | 2     | 2     | 4     | 3     | 1     | 2     | 1     | 8      | 47      |    |
| PRECIPITATION ≥ 0.10 | 0                             | 0     | 1     | 2     | 0     | 1     | 0     | 3     | 0     | 0     | 1     | 4     | 12     |         |    |
| PRECIPITATION ≥ 1.00 | 0                             | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0      |         |    |
| 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

## RENO, NV (RNO)

LATITUDE: 39° 29' 02" N      LONGITUDE: 119° 46' 16" W      ELEVATION (FT): GRND: 4404      BARO: 4407      TIME ZONE: PACIFIC (UTC + 8)      WBAN: 23185

|                       |                             | POR  | JAN   | FEB   | MAR   | APR   | MAY   | JUN   | JUL   | AUG   | SEP   | OCT   | NOV   | DEC      | YEAR     |
|-----------------------|-----------------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|----------|
| TEMPERATURE °F        | NORMAL DAILY MAXIMUM        | 30   | 45.5  | 51.7  | 57.2  | 64.1  | 72.6  | 82.8  | 91.2  | 89.9  | 81.7  | 69.9  | 55.3  | 46.4     | 67.4     |
|                       | MEAN DAILY MAXIMUM          | 58   | 45.5  | 51.3  | 56.5  | 63.8  | 72.6  | 82.1  | 91.1  | 89.3  | 81.6  | 69.8  | 55.1  | 46.2     | 67.1     |
|                       | HIGHEST DAILY MAXIMUM       | 62   | 71    | 75    | 83    | 89    | 97    | 103   | 108   | 105   | 101   | 91    | 77    | 70       | 108      |
|                       | YEAR OF OCCURRENCE          |      | 2003  | 1986  | 1966  | 1981  | 2003  | 1988  | 2002  | 1983  | 1950  | 1980  | 1980  | 1969     | JUL 2002 |
|                       | MEAN OF EXTREME MAXS.       | 58   | 61.2  | 65.7  | 71.6  | 79.3  | 88.5  | 95.6  | 99.9  | 99.0  | 93.4  | 84.6  | 71.0  | 61.3     | 80.9     |
|                       | NORMAL DAILY MINIMUM        | 30   | 21.8  | 25.4  | 29.3  | 33.2  | 40.2  | 46.5  | 51.4  | 49.9  | 43.1  | 34.0  | 26.4  | 20.7     | 35.2     |
|                       | MEAN DAILY MINIMUM          | 58   | 20.4  | 24.2  | 27.4  | 31.6  | 39.1  | 45.2  | 50.1  | 48.0  | 41.5  | 32.9  | 25.5  | 20.6     | 33.9     |
|                       | LOWEST DAILY MINIMUM        | 62   | -16   | -16   | -2    | 13    | 18    | 25    | 33    | 24    | 20    | 8     | 1     | -16      | -16      |
|                       | YEAR OF OCCURRENCE          |      | 1949  | 1989  | 1945  | 1956  | 1964  | 1954  | 1976  | 1962  | 1965  | 1971  | 1958  | 1972     | DEC 1972 |
|                       | MEAN OF EXTREME MINS.       | 58   | 4.9   | 10.1  | 15.3  | 20.6  | 27.6  | 34.4  | 40.4  | 38.7  | 31.4  | 21.4  | 13.0  | 6.6      | 22.0     |
|                       | NORMAL DRY BULB             | 30   | 33.6  | 38.5  | 43.3  | 48.6  | 56.4  | 64.7  | 71.3  | 69.9  | 62.4  | 52.0  | 40.9  | 33.6     | 51.3     |
|                       | MEAN DRY BULB               | 58   | 32.8  | 37.7  | 41.9  | 47.9  | 55.9  | 63.6  | 70.6  | 68.6  | 61.4  | 51.2  | 40.3  | 33.4     | 50.4     |
|                       | MEAN WET BULB               | 20   | 29.8  | 32.0  | 36.2  | 39.7  | 45.6  | 50.9  | 55.3  | 54.1  | 49.2  | 42.1  | 34.3  | 27.3     | 41.4     |
|                       | MEAN DEW POINT              | 20   | 23.3  | 23.2  | 24.8  | 26.2  | 31.4  | 35.6  | 39.9  | 38.5  | 35.2  | 29.5  | 25.3  | 21.2     | 29.5     |
|                       | NORMAL NO. DAYS WITH:       |      |       |       |       |       |       |       |       |       |       |       |       |          |          |
| MAXIMUM ≥ 90°         | 30                          | 0.0  | 0.0   | 0.0   | 0.0   | 1.0   | 7.3   | 19.8  | 17.0  | 5.2   | 0.1   | 0.0   | 0.0   | 50.4     |          |
| MAXIMUM ≤ 32°         | 30                          | 3.1  | 1.0   | *     | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.3   | 2.8   | 7.2      |          |
| MINIMUM ≤ 32°         | 30                          | 27.6 | 23.9  | 21.2  | 14.5  | 4.2   | 0.4   | 0.0   | *     | 2.1   | 13.1  | 24.1  | 28.3  | 159.4    |          |
| MINIMUM ≤ 0°          | 30                          | 0.9  | 0.2   | *     | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.9   | 2.0      |          |
| H/C                   | NORMAL HEATING DEG. DAYS    | 30   | 984   | 756   | 683   | 502   | 285   | 91    | 12    | 22    | 130   | 416   | 732   | 987      | 5600     |
|                       | NORMAL COOLING DEG. DAYS    | 30   | 0     | 0     | 0     | 0     | 11    | 72    | 204   | 164   | 41    | 1     | 0     | 0        | 493      |
| RH                    | NORMAL (PERCENT)            | 30   | 70    | 61    | 53    | 45    | 42    | 38    | 34    | 35    | 42    | 50    | 60    | 68       | 50       |
|                       | HOUR 04 LST                 | 30   | 81    | 76    | 71    | 66    | 66    | 62    | 60    | 61    | 66    | 71    | 75    | 79       | 70       |
|                       | HOUR 10 LST                 | 30   | 71    | 59    | 48    | 37    | 33    | 29    | 26    | 27    | 33    | 42    | 56    | 67       | 44       |
|                       | HOUR 16 LST                 | 30   | 52    | 42    | 34    | 28    | 26    | 22    | 18    | 19    | 22    | 27    | 40    | 48       | 32       |
|                       | HOUR 22 LST                 | 30   | 75    | 64    | 56    | 48    | 45    | 39    | 34    | 36    | 44    | 54    | 64    | 72       | 53       |
| S                     | PERCENT POSSIBLE SUNSHINE   | 45   | 65    | 68    | 75    | 80    | 81    | 85    | 92    | 92    | 91    | 83    | 70    | 64       | 79       |
| W/O                   | MEAN NO. DAYS WITH:         |      |       |       |       |       |       |       |       |       |       |       |       |          |          |
|                       | HEAVY FOG (VISBY ≤ 1/4 MI)  | 61   | 2.1   | 0.8   | 0.3   | 0.1   | 0.1   | 0.0   | 0.0   | 0.1   | 0.1   | 0.2   | 0.6   | 2.5      | 6.9      |
|                       | THUNDERSTORMS               | 61   | 0.0   | 0.0   | 0.1   | 0.5   | 2.0   | 2.8   | 3.4   | 2.8   | 1.3   | 0.6   | 0.0   | 0.0      | 13.5     |
| CLOUDINESS            | MEAN:                       |      |       |       |       |       |       |       |       |       |       |       |       |          |          |
|                       | SUNRISE-SUNSET (OKTAS)      | 1    |       |       |       |       | 4.0   | 2.4   |       |       |       |       |       |          |          |
|                       | MIDNIGHT-MIDNIGHT (OKTAS)   | 1    |       |       |       |       | 4.0   | 2.4   |       |       |       |       |       |          |          |
|                       | MEAN NO. DAYS WITH:         |      |       |       |       |       |       |       |       |       |       |       |       |          |          |
|                       | CLEAR                       | 1    | 2.0   | 3.0   | 4.0   |       | 13.0  | 17.0  |       |       |       |       |       |          |          |
| PARTLY CLOUDY         | 1                           | 3.0  | 3.0   | 3.0   |       | 8.0   |       |       |       |       |       |       |       |          |          |
| CLOUDY                | 1                           | 3.0  | 5.0   | 5.0   |       | 7.0   | 3.0   |       |       |       |       |       |       |          |          |
| PR                    | MEAN STATION PRESSURE (IN)  | 31   | 25.63 | 25.58 | 25.52 | 25.54 | 25.53 | 25.55 | 25.59 | 25.59 | 25.59 | 25.63 | 25.64 | 25.66    | 25.59    |
|                       | MEAN SEA-LEVEL PRES. (IN)   | 19   | 30.16 | 30.07 | 29.99 | 29.97 | 29.90 | 29.96 | 29.91 | 29.91 | 29.95 | 30.05 | 30.10 | 30.15    | 30.01    |
| WINDS                 | MEAN SPEED (MPH)            | 39   | 5.3   | 6.3   | 7.7   | 8.1   | 8.0   | 7.6   | 7.1   | 6.6   | 5.8   | 5.3   | 5.3   | 5.2      | 6.5      |
|                       | PREVAIL. DIR (TENS OF DEGS) | 24   | 18    | 18    | 18    | 29    | 27    | 28    | 29    | 29    | 29    | 18    | 18    | 18       | 29       |
|                       | MAXIMUM 2-MINUTE:           |      |       |       |       |       |       |       |       |       |       |       |       |          |          |
|                       | SPEED (MPH)                 | 8    | 45    | 44    | 49    | 45    | 43    | 35    | 41    | 40    | 43    | 41    | 52    | 67       | 67       |
|                       | DIR. (TENS OF DEGS)         |      | 17    | 15    | 21    | 26    | 14    | 27    | 18    | 19    | 23    | 16    | 20    | 19       | 19       |
|                       | YEAR OF OCCURRENCE          |      | 2002  | 1999  | 1999  | 2002  | 1996  | 2003  | 2002  | 1999  | 1999  | 2000  | 1999  | 2002     | DEC 2002 |
|                       | MAXIMUM 5-SECOND:           |      |       |       |       |       |       |       |       |       |       |       |       |          |          |
|                       | SPEED (MPH)                 | 8    | 54    | 57    | 61    | 54    | 48    | 46    | 53    | 49    | 53    | 52    | 62    | 82       | 82       |
| DIR. (TENS OF DEGS)   |                             | 16   | 14    | 20    | 16    | 15    | 12    | 26    | 19    | 25    | 16    | 20    | 16    | 16       |          |
| YEAR OF OCCURRENCE    |                             | 2002 | 1999  | 1999  | 2000  | 1996  | 1997  | 2003  | 1999  | 1999  | 1997  | 1999  | 2002  | DEC 2002 |          |
| PRECIPITATION         | NORMAL (IN)                 | 30   | 1.06  | 1.06  | 0.86  | 0.35  | 0.62  | 0.47  | 0.24  | 0.27  | 0.45  | 0.42  | 0.80  | 0.88     | 7.48     |
|                       | MAXIMUM MONTHLY (IN)        | 62   | 4.13  | 4.84  | 2.87  | 2.04  | 2.89  | 1.53  | 1.06  | 1.65  | 2.31  | 2.14  | 3.08  | 5.25     | 5.25     |
|                       | YEAR OF OCCURRENCE          |      | 1969  | 1986  | 1995  | 1958  | 1963  | 1989  | 1971  | 1965  | 1982  | 1945  | 1983  | 1955     | DEC 1955 |
|                       | MINIMUM MONTHLY (IN)        | 62   | T     | T     | T     | T     | T     | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | T        | 0.00     |
|                       | YEAR OF OCCURRENCE          |      | 1966  | 1967  | 1988  | 1985  | 1985  | 1959  | 1951  | 1957  | 1974  | 1995  | 1959  | 1989     | OCT 1995 |
|                       | MAXIMUM IN 24 HOURS (IN)    | 62   | 2.37  | 1.80  | 1.21  | 1.64  | 1.76  | 0.79  | 0.80  | 0.97  | 0.91  | 1.55  | 1.65  | 2.16     | 2.37     |
|                       | YEAR OF OCCURRENCE          |      | 1943  | 1990  | 1943  | 1958  | 1987  | 1969  | 1949  | 1965  | 1982  | 1962  | 1988  | 1955     | JAN 1943 |
|                       | NORMAL NO. DAYS WITH:       |      |       |       |       |       |       |       |       |       |       |       |       |          |          |
| PRECIPITATION ≥ 0.01  | 30                          | 6.9  | 7.0   | 6.8   | 3.9   | 4.3   | 3.6   | 2.0   | 2.1   | 3.3   | 3.3   | 5.0   | 5.4   | 53.6     |          |
| PRECIPITATION ≥ 1.00  | 30                          | 0.1  | 0.1   | *     | 0.0   | *     | 0.0   | 0.0   | 0.0   | 0.0   | *     | 0.1   | 0.1   | 0.4      |          |
| SNOWFALL              | NORMAL (IN)                 | 30   | 5.2   | 5.4   | 3.3   | 0.9   | 0.7   | 0.*   | 0.0   | 0.0   | 0.1   | 0.5   | 3.1   | 4.3      | 23.5     |
|                       | MAXIMUM MONTHLY (IN)        | 55   | 22.9  | 23.5  | 29.0  | 7.5   | 14.1  | 0.2   | 0.0   | 0.0   | 1.5   | 5.1   | 16.5  | 25.6     | 29.0     |
|                       | YEAR OF OCCURRENCE          |      | 1993  | 1969  | 1952  | 1958  | 1964  | 1995  |       |       | 1982  | 1971  | 1985  | 1971     | MAR 1952 |
|                       | MAXIMUM IN 24 HOURS (IN)    | 55   | 12.0  | 18.0  | 16.9  | 7.3   | 9.0   | 0.2   | 0.0   | 0.0   | 1.5   | 3.7   | 15.4  | 14.9     | 18.0     |
|                       | YEAR OF OCCURRENCE          |      | 1956  | 1990  | 1952  | 1958  | 1962  | 1995  |       |       | 1982  | 1971  | 1985  | 1971     | FEB 1990 |
|                       | MAXIMUM SNOW DEPTH (IN)     | 48   | 13    | 13    | 10    | 4     | 6     | 0     | 0     | 0     | 1     | 3     | 10    | 9        | 13       |
|                       | YEAR OF OCCURRENCE          |      | 1993  | 1990  | 1952  | 1975  | 1971  |       |       |       | 1982  | 1984  | 1985  | 1992     | FEB 1990 |
| NORMAL NO. DAYS WITH: |                             |      |       |       |       |       |       |       |       |       |       |       |       |          |          |
| SNOWFALL ≥ 1.0        | 30                          | 1.8  | 1.6   | 1.1   | 0.4   | 0.2   | 0.0   | 0.0   | 0.0   | 0.0   | 0.2   | 0.8   | 1.3   | 7.4      |          |

PRECIPITATION (inches) 2003 RENO, NV (RNO)

| YEAR            | JAN  | FEB  | MAR  | APR  | MAY  | JUN  | JUL  | AUG  | SEP  | OCT  | NOV  | DEC  | ANNUAL |
|-----------------|------|------|------|------|------|------|------|------|------|------|------|------|--------|
| 1974            | 1.60 | 0.34 | 1.16 | 0.23 | 0.01 | T    | 0.33 | 0.19 | 0.00 | 0.69 | 0.27 | 0.56 | 5.38   |
| 1975            | 0.32 | 1.74 | 1.59 | 0.62 | 0.21 | 0.21 | 0.03 | 1.03 | 0.92 | 0.15 | 0.12 | 0.01 | 6.95   |
| 1976            | 0.16 | 1.20 | 0.36 | 0.20 | 0.10 | T    | 0.96 | 0.62 | 1.10 | 0.28 | 0.07 | 0.01 | 5.06   |
| 1977            | 0.67 | 0.71 | 0.19 | T    | 1.24 | 1.03 | 0.07 | 0.01 | 0.01 | 0.14 | 0.23 | 2.54 | 6.84   |
| 1978            | 1.66 | 0.98 | 1.49 | 0.20 | 0.31 | 0.07 | 0.19 | 0.15 | 0.68 | 0.08 | 1.30 | 0.82 | 7.93   |
| 1979            | 0.66 | 0.82 | 0.52 | 0.41 | 0.16 | T    | 0.58 | 0.38 | T    | 0.31 | 0.17 | 2.02 | 6.03   |
| 1980            | 2.77 | 1.90 | 0.76 | 0.51 | 0.78 | 0.12 | 0.54 | 0.32 | 0.48 | 0.14 | 0.28 | 0.60 | 9.20   |
| 1981            | 0.85 | 0.21 | 0.58 | 0.21 | 0.57 | T    | 0.01 | 0.36 | 0.07 | 0.64 | 2.13 | 1.05 | 6.68   |
| 1982            | 1.20 | 0.41 | 1.14 | 0.34 | 0.10 | 1.07 | 0.04 | 0.09 | 2.31 | 1.65 | 1.71 | 1.04 | 11.10  |
| 1983            | 1.72 | 1.58 | 1.31 | 1.35 | 0.21 | 0.53 | T    | 0.78 | 0.84 | 0.36 | 3.08 | 1.47 | 13.23  |
| 1984            | 0.36 | 0.22 | 0.20 | 0.24 | 0.06 | 0.34 | 0.45 | 0.02 | 0.04 | 0.60 | 1.68 | 0.07 | 4.28   |
| 1985            | 0.24 | 0.68 | 1.07 | T    | T    | 0.12 | T    | 0.01 | 0.63 | 0.46 | 1.23 | 0.55 | 4.99   |
| 1986            | 0.40 | 4.84 | 0.88 | 0.77 | 0.26 | 0.31 | 0.86 | 0.07 | 0.28 | 0.06 | 0.02 | 0.19 | 8.94   |
| 1987            | 0.49 | 0.78 | 0.80 | 0.49 | 2.29 | 1.12 | 0.01 | 0.01 | 0.01 | 0.54 | 0.37 | 0.59 | 7.50   |
| 1988            | 0.50 | 0.02 | T    | 0.95 | 0.12 | 0.59 | 0.22 | 0.01 | 0.04 | 0.02 | 1.99 | 0.84 | 5.30   |
| 1989            | 0.20 | 0.80 | 0.46 | 0.03 | 1.33 | 1.53 | 0.00 | 0.82 | 1.19 | 0.43 | 0.55 | T    | 7.34   |
| 1990            | 0.62 | 1.98 | 0.07 | 0.33 | 0.19 | 0.03 | 0.86 | 0.21 | 0.31 | 0.06 | 0.15 | 0.45 | 5.26   |
| 1991            | 0.01 | 0.21 | 1.42 | 0.47 | 0.50 | 0.39 | 0.04 | 0.24 | 0.60 | 0.23 | 0.89 | 0.15 | 5.15   |
| 1992            | 0.13 | 0.45 | 0.69 | 0.06 | 0.10 | 1.12 | 0.15 | 0.28 | T    | 0.45 | 0.06 | 1.87 | 5.36   |
| 1993            | 2.42 | 1.27 | 0.55 | 0.01 | 0.27 | 0.35 | T    | T    | T    | 1.42 | 0.13 | 0.16 | 6.58   |
| 1994            | 0.06 | 0.62 | 1.00 | 0.03 | 1.39 | 0.00 | 0.09 | 0.00 | 0.15 | 0.23 | 1.47 | 0.16 | 5.20   |
| 1995            | 3.31 | 0.20 | 2.87 | 0.40 | 1.81 | 1.29 | 0.22 | T    | T    | 0.00 | 0.19 | 2.27 | 12.56  |
| 1996            | 1.33 | 2.30 | 1.63 | 0.16 | 1.07 | 0.71 | 0.20 | 0.16 | 0.45 | 0.28 | 0.89 | 3.03 | 12.21  |
| 1997            | 3.32 | 0.71 | 0.01 | 0.22 | 0.13 | 1.17 | 0.04 | T    | 0.55 | 0.16 | 0.86 | 0.58 | 7.75   |
| 1998            | 1.10 | 2.59 | 2.21 | 0.60 | 0.82 | 1.39 | T    | T    | 2.17 | 0.34 | 0.77 | 0.04 | 12.03  |
| 1999            | 0.76 | 1.25 | 0.11 | 0.55 | 0.20 | 0.06 | 0.10 | 0.82 | 0.07 | 0.42 | 0.01 | 0.07 | 4.42   |
| 2000            | 2.14 | 0.98 | 0.38 | 0.34 | 0.23 | 0.23 | 0.00 | 0.79 | 0.04 | 0.04 | 0.40 | 0.14 | 5.71   |
| 2001            | 0.31 | 0.18 | 0.15 | 0.66 | T    | 0.09 | 0.07 | T    | 0.09 | 0.14 | 0.83 | 1.83 | 4.35   |
| 2002            | 0.59 | 0.24 | 0.42 | 1.21 | 0.20 | 0.10 | 0.12 | 0.82 | T    | 0.12 | 1.08 | 2.18 | 7.08   |
| 2003            | 0.17 | 0.23 | 0.31 | 0.83 | 0.04 | 0.38 | 0.23 | 1.01 | 0.01 | 0.03 | 0.12 | 1.22 | 4.58   |
| POR=<br>116 YRS | 1.32 | 1.07 | 0.78 | 0.48 | 0.65 | 0.41 | 0.21 | 0.24 | 0.32 | 0.40 | 0.61 | 1.04 | 7.53   |

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AVERAGE TEMPERATURE (°F) 2003 RENO, NV (RNO)

| YEAR            | JAN  | FEB  | MAR  | APR  | MAY  | JUN  | JUL  | AUG  | SEP  | OCT  | NOV  | DEC  | ANNUAL |
|-----------------|------|------|------|------|------|------|------|------|------|------|------|------|--------|
| 1974            | 31.6 | 36.2 | 42.8 | 46.5 | 54.9 | 63.9 | 67.0 | 65.7 | 61.4 | 49.3 | 40.4 | 31.1 | 49.2   |
| 1975            | 32.3 | 34.1 | 38.4 | 39.9 | 54.2 | 62.4 | 70.4 | 64.8 | 64.2 | 49.5 | 35.9 | 33.8 | 48.3   |
| 1976            | 32.1 | 35.0 | 38.3 | 44.5 | 57.5 | 61.1 | 69.0 | 62.1 | 62.0 | 51.3 | 42.4 | 30.5 | 48.8   |
| 1977            | 32.3 | 40.0 | 38.1 | 51.3 | 48.5 | 68.6 | 69.5 | 69.8 | 60.7 | 52.2 | 41.9 | 38.3 | 50.9   |
| 1978            | 37.1 | 38.4 | 47.2 | 45.3 | 52.3 | 61.6 | 69.5 | 67.2 | 57.6 | 53.5 | 37.2 | 24.9 | 49.3   |
| 1979            | 28.9 | 36.9 | 41.9 | 46.9 | 57.1 | 63.9 | 69.9 | 67.7 | 64.2 | 54.0 | 38.0 | 35.5 | 50.4   |
| 1980            | 36.9 | 40.6 | 38.5 | 49.8 | 54.4 | 60.8 | 71.3 | 67.5 | 63.0 | 50.9 | 41.8 | 36.2 | 51.0   |
| 1981            | 36.1 | 38.8 | 41.7 | 50.7 | 57.5 | 68.3 | 67.9 | 69.4 | 64.7 | 46.9 | 42.5 | 39.0 | 52.0   |
| 1982            | 28.5 | 40.3 | 40.2 | 44.0 | 55.0 | 61.8 | 70.4 | 68.8 | 57.0 | 46.9 | 36.2 | 32.3 | 48.5   |
| 1983            | 34.2 | 38.6 | 40.5 | 43.8 | 53.3 | 62.5 | 67.2 | 69.9 | 62.9 | 54.1 | 41.2 | 38.8 | 50.6   |
| 1984            | 31.9 | 37.2 | 44.3 | 45.8 | 59.4 | 61.7 | 73.4 | 69.8 | 63.1 | 46.2 | 39.6 | 30.7 | 50.3   |
| 1985            | 30.6 | 37.0 | 38.7 | 52.7 | 56.3 | 68.6 | 73.4 | 68.5 | 57.4 | 50.4 | 34.8 | 31.2 | 50.0   |
| 1986            | 40.3 | 42.8 | 47.7 | 49.2 | 57.4 | 67.5 | 69.4 | 73.0 | 56.3 | 50.9 | 43.0 | 35.3 | 52.7   |
| 1987            | 31.6 | 38.4 | 43.4 | 54.8 | 59.7 | 67.9 | 68.2 | 71.3 | 65.0 | 56.3 | 41.8 | 31.9 | 52.5   |
| 1988            | 33.0 | 40.2 | 44.1 | 51.2 | 56.6 | 67.0 | 75.2 | 73.2 | 63.4 | 58.4 | 42.7 | 31.2 | 53.0   |
| 1989            | 30.9 | 31.1 | 46.4 | 54.0 | 57.0 | 66.3 | 72.6 | 67.7 | 61.9 | 51.4 | 41.8 | 35.9 | 51.4   |
| 1990            | 34.3 | 30.8 | 45.7 | 54.5 | 56.4 | 65.7 | 73.7 | 71.1 | 65.4 | 54.7 | 40.9 | 25.8 | 51.6   |
| 1991            | 31.8 | 43.7 | 39.9 | 46.9 | 51.8 | 62.5 | 74.3 | 71.5 | 65.8 | 56.6 | 43.4 | 33.7 | 51.8   |
| 1992            | 34.4 | 41.8 | 46.9 | 55.8 | 64.9 | 66.5 | 70.8 | 72.7 | 64.8 | 55.3 | 39.9 | 30.6 | 53.7   |
| 1993            | 25.7 | 34.3 | 48.5 | 48.7 | 58.4 | 61.9 | 69.0 | 70.0 | 65.3 | 54.9 | 40.4 | 36.5 | 51.1   |
| 1994            | 37.7 | 38.5 | 48.7 | 52.9 | 59.8 | 68.5 | 77.2 | 73.7 | 65.0 | 52.3 | 35.1 | 35.7 | 53.8   |
| 1995            | 38.2 | 46.0 | 43.3 | 47.5 | 55.0 | 62.1 | 72.1 | 72.7 | 63.0 | 52.4 | 46.4 | 38.1 | 53.1   |
| 1996            | 37.6 | 39.5 | 42.2 | 48.5 | 55.1 | 64.0 | 72.9 | 70.0 | 60.0 | 49.9 | 41.3 | 38.4 | 51.6   |
| 1997            | 34.2 | 37.8 | 46.8 | 47.4 | 60.7 | 62.6 | 69.4 | 69.8 | 62.6 | 49.5 | 42.0 | 31.0 | 51.2   |
| 1998            | 38.2 | 36.2 | 42.2 | 45.4 | 50.9 | 63.3 | 75.8 | 74.9 | 65.7 | 49.8 | 42.8 | 31.7 | 51.4   |
| 1999            | 37.7 | 39.7 | 43.9 | 46.7 | 58.8 | 67.3 | 73.7 | 70.0 | 65.8 | 56.0 | 46.7 | 34.9 | 53.4   |
| 2000            | 38.7 | 41.3 | 45.7 | 54.1 | 60.5 | 70.9 | 72.9 | 73.4 | 63.4 | 52.0 | 37.8 | 36.9 | 54.0   |
| 2001            | 33.0 | 35.8 | 48.7 | 47.8 | 66.5 | 69.9 | 74.2 | 76.1 | 68.0 | 58.2 | 44.6 | 36.5 | 54.9   |
| 2002            | 34.4 | 40.9 | 42.7 | 52.0 | 58.3 | 70.0 | 78.4 | 72.5 | 66.4 | 52.6 | 43.1 | 37.5 | 54.1   |
| 2003            | 43.1 | 37.6 | 46.5 | 45.5 | 60.4 | 71.6 | 79.2 | 74.1 | 68.1 | 59.4 | 40.0 | 38.1 | 55.3   |
| POR=<br>116 YRS | 32.5 | 36.9 | 41.8 | 47.9 | 55.4 | 63.3 | 70.6 | 68.9 | 61.3 | 51.3 | 41.0 | 33.4 | 50.4   |

HEATING DEGREE DAYS (base 65°F) 2003 RENO, NV (RNO)

| YEAR    | JUL | AUG | SEP | OCT | NOV | DEC  | JAN  | FEB | MAR | APR | MAY | JUN | TOTAL |
|---------|-----|-----|-----|-----|-----|------|------|-----|-----|-----|-----|-----|-------|
| 1974-75 | 52  | 42  | 120 | 478 | 733 | 1046 | 1006 | 858 | 818 | 746 | 332 | 113 | 6344  |
| 1975-76 | 26  | 65  | 51  | 477 | 868 | 961  | 1012 | 863 | 821 | 610 | 224 | 138 | 6116  |
| 1976-77 | 15  | 116 | 116 | 419 | 670 | 1062 | 1002 | 695 | 828 | 405 | 509 | 30  | 5867  |
| 1977-78 | 10  | 12  | 154 | 392 | 687 | 821  | 858  | 739 | 544 | 582 | 387 | 113 | 5299  |
| 1978-79 | 21  | 62  | 234 | 347 | 826 | 1236 | 1113 | 781 | 709 | 536 | 247 | 91  | 6203  |
| 1979-80 | 9   | 28  | 56  | 339 | 805 | 908  | 865  | 701 | 813 | 451 | 319 | 152 | 5446  |
| 1980-81 | 13  | 35  | 79  | 430 | 688 | 885  | 890  | 727 | 715 | 424 | 228 | 48  | 5162  |
| 1981-82 | 12  | 7   | 83  | 554 | 669 | 800  | 1123 | 687 | 760 | 623 | 307 | 133 | 5758  |
| 1982-83 | 15  | 11  | 278 | 556 | 855 | 1006 | 947  | 732 | 752 | 630 | 371 | 77  | 6230  |
| 1983-84 | 40  | 8   | 104 | 332 | 708 | 805  | 1019 | 801 | 637 | 570 | 183 | 133 | 5340  |
| 1984-85 | 0   | 8   | 111 | 575 | 753 | 1056 | 1060 | 781 | 810 | 359 | 266 | 45  | 5824  |
| 1985-86 | 5   | 12  | 230 | 446 | 896 | 1039 | 757  | 618 | 528 | 469 | 285 | 32  | 5317  |
| 1986-87 | 5   | 0   | 291 | 430 | 654 | 913  | 1028 | 737 | 661 | 299 | 182 | 34  | 5234  |
| 1987-88 | 38  | 5   | 45  | 265 | 690 | 1017 | 982  | 714 | 643 | 408 | 267 | 88  | 5162  |
| 1988-89 | 0   | 0   | 132 | 202 | 663 | 1042 | 1049 | 944 | 568 | 321 | 256 | 21  | 5198  |
| 1989-90 | 0   | 21  | 99  | 417 | 688 | 895  | 943  | 954 | 590 | 312 | 260 | 64  | 5243  |
| 1990-91 | 0   | 20  | 55  | 313 | 715 | 1209 | 1021 | 588 | 772 | 540 | 404 | 106 | 5743  |
| 1991-92 | 0   | 6   | 41  | 265 | 642 | 965  | 945  | 666 | 555 | 273 | 61  | 83  | 4502  |
| 1992-93 | 10  | 9   | 41  | 293 | 748 | 1056 | 1212 | 853 | 503 | 480 | 200 | 139 | 5544  |
| 1993-94 | 16  | 8   | 77  | 316 | 730 | 874  | 838  | 735 | 498 | 360 | 186 | 34  | 4672  |
| 1994-95 | 0   | 0   | 58  | 387 | 888 | 901  | 824  | 529 | 665 | 520 | 308 | 147 | 5227  |
| 1995-96 | 4   | 0   | 87  | 383 | 553 | 829  | 843  | 733 | 700 | 488 | 301 | 71  | 4992  |
| 1996-97 | 2   | 7   | 155 | 463 | 705 | 820  | 946  | 756 | 559 | 520 | 139 | 102 | 5174  |
| 1997-98 | 10  | 3   | 94  | 470 | 683 | 1047 | 824  | 801 | 697 | 582 | 429 | 87  | 5277  |
| 1998-99 | 0   | 0   | 81  | 464 | 658 | 1027 | 841  | 705 | 648 | 541 | 220 | 80  | 5265  |
| 1999-00 | 0   | 18  | 37  | 271 | 543 | 926  | 810  | 683 | 593 | 324 | 184 | 16  | 4405  |
| 2000-01 | 7   | 0   | 103 | 401 | 812 | 864  | 984  | 812 | 497 | 512 | 54  | 15  | 5061  |
| 2001-02 | 0   | 0   | 10  | 218 | 605 | 875  | 942  | 672 | 686 | 383 | 233 | 34  | 4658  |
| 2002-03 | 0   | 0   | 48  | 379 | 651 | 848  | 673  | 763 | 568 | 578 | 224 | 17  | 4749  |
| 2003-   | 0   | 0   | 20  | 181 | 744 | 825  |      |     |     |     |     |     |       |

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COOLING DEGREE DAYS (base 65°F) 2003 RENO, NV (RNO)

| YEAR | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | ANNUAL |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------|
| 1974 | 0   | 0   | 0   | 0   | 2   | 47  | 118 | 71  | 20  | 0   | 0   | 0   | 258    |
| 1975 | 0   | 0   | 0   | 0   | 4   | 43  | 199 | 66  | 33  | 3   | 0   | 0   | 348    |
| 1976 | 0   | 0   | 0   | 0   | 0   | 25  | 144 | 34  | 33  | 0   | 0   | 0   | 236    |
| 1977 | 0   | 0   | 0   | 0   | 6   | 141 | 154 | 167 | 32  | 0   | 0   | 0   | 500    |
| 1978 | 0   | 0   | 0   | 0   | 0   | 16  | 166 | 139 | 19  | 0   | 0   | 0   | 340    |
| 1979 | 0   | 0   | 0   | 0   | 9   | 63  | 169 | 122 | 38  | 3   | 0   | 0   | 404    |
| 1980 | 0   | 0   | 0   | 0   | 2   | 32  | 218 | 119 | 25  | 1   | 0   | 0   | 397    |
| 1981 | 0   | 0   | 0   | 2   | 4   | 153 | 112 | 151 | 80  | 0   | 0   | 0   | 502    |
| 1982 | 0   | 0   | 0   | 0   | 2   | 45  | 188 | 135 | 47  | 0   | 0   | 0   | 417    |
| 1983 | 0   | 0   | 0   | 0   | 16  | 9   | 115 | 170 | 49  | 0   | 0   | 0   | 359    |
| 1984 | 0   | 0   | 0   | 0   | 16  | 42  | 264 | 162 | 61  | 0   | 0   | 0   | 545    |
| 1985 | 0   | 0   | 0   | 0   | 3   | 157 | 273 | 126 | 6   | 0   | 0   | 0   | 565    |
| 1986 | 0   | 0   | 0   | 0   | 53  | 112 | 148 | 253 | 39  | 0   | 0   | 0   | 605    |
| 1987 | 0   | 0   | 0   | 1   | 27  | 126 | 142 | 210 | 53  | 2   | 0   | 0   | 561    |
| 1988 | 0   | 0   | 0   | 0   | 11  | 152 | 323 | 264 | 92  | 2   | 0   | 0   | 844    |
| 1989 | 0   | 0   | 0   | 0   | 19  | 66  | 240 | 112 | 13  | 0   | 0   | 0   | 450    |
| 1990 | 0   | 0   | 0   | 1   | 0   | 95  | 278 | 216 | 76  | 0   | 0   | 0   | 666    |
| 1991 | 0   | 0   | 0   | 0   | 0   | 39  | 296 | 214 | 71  | 13  | 0   | 0   | 633    |
| 1992 | 0   | 0   | 0   | 5   | 61  | 135 | 197 | 257 | 45  | 1   | 0   | 0   | 701    |
| 1993 | 0   | 0   | 0   | 0   | 4   | 52  | 145 | 171 | 92  | 10  | 0   | 0   | 474    |
| 1994 | 0   | 0   | 0   | 3   | 31  | 148 | 381 | 274 | 65  | 0   | 0   | 0   | 902    |
| 1995 | 0   | 0   | 0   | 0   | 6   | 66  | 231 | 247 | 35  | 0   | 0   | 0   | 585    |
| 1996 | 0   | 0   | 0   | 0   | 0   | 50  | 254 | 169 | 14  | 2   | 0   | 0   | 489    |
| 1997 | 0   | 0   | 0   | 0   | 14  | 35  | 154 | 160 | 26  | 0   | 0   | 0   | 389    |
| 1998 | 0   | 0   | 0   | 0   | 0   | 43  | 344 | 316 | 108 | 0   | 0   | 0   | 811    |
| 1999 | 0   | 0   | 0   | 0   | 36  | 157 | 276 | 180 | 69  | 0   | 0   | 0   | 718    |
| 2000 | 0   | 0   | 0   | 0   | 54  | 199 | 256 | 271 | 62  | 6   | 0   | 0   | 848    |
| 2001 | 0   | 0   | 0   | 0   | 107 | 174 | 292 | 348 | 106 | 14  | 0   | 0   | 1041   |
| 2002 | 0   | 0   | 0   | 0   | 33  | 191 | 423 | 240 | 97  | 0   | 0   | 0   | 984    |
| 2003 | 0   | 0   | 0   | 0   | 90  | 223 | 449 | 292 | 119 | 13  | 0   | 0   | 1186   |

SNOWFALL (inches) 2003 RENO, NV (RNO)

| YEAR           | JUL | AUG | SEP | OCT | NOV  | DEC  | JAN  | FEB  | MAR  | APR | MAY | JUN | TOTAL |
|----------------|-----|-----|-----|-----|------|------|------|------|------|-----|-----|-----|-------|
| 1974-75        | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 4.0  | 2.7  | 19.0 | 12.1 | 4.8 | 2.2 | T   | 44.8  |
| 1975-76        | 0.0 | 0.0 | 0.0 | T   | 1.7  | T    | 0.3  | 15.8 | 7.8  | 2.7 | T   | 0.0 | 28.3  |
| 1976-77        | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.5  | 0.7  | 1.4  | 1.2  | T   | 2.9 | 0.0 | 6.7   |
| 1977-78        | 0.0 | 0.0 | 0.0 | 0.0 | 0.5  | 5.6  | 0.3  | 5.1  | 0.2  | 0.1 | 0.4 | 0.0 | 12.2  |
| 1978-79        | 0.0 | 0.0 | T   | 0.8 | 9.7  | 9.1  | 6.4  | 3.9  | 0.2  | 1.1 | 0.3 | 0.0 | 31.5  |
| 1979-80        | 0.0 | 0.0 | 0.0 | 0.3 | T    | 2.1  | 4.7  | 6.1  | 7.6  | 1.2 | T   | 0.0 | 22.0  |
| 1980-81        | 0.0 | 0.0 | 0.0 | T   | T    | T    | 3.9  | T    | 2.2  | T   | 0.0 | 0.0 | 6.1   |
| 1981-82        | 0.0 | 0.0 | 0.0 | 1.1 | 2.0  | 0.1  | 12.5 | 2.3  | 6.7  | 0.8 | 0.5 | 0.0 | 26.0  |
| 1982-83        | 0.0 | 0.0 | 1.5 | 0.0 | 8.6  | 1.8  | 1.5  | 1.0  | 3.0  | 2.9 | 3.5 | 0.0 | 23.8  |
| 1983-84        | 0.0 | 0.0 | 0.0 | 0.0 | 5.7  | 0.5  | 6.7  | 1.5  | 0.1  | T   | 0.0 | 0.0 | 14.5  |
| 1984-85        | 0.0 | 0.0 | 0.0 | 3.4 | 3.0  | 1.3  | 4.3  | 0.8  | 7.0  | T   | T   | 0.0 | 19.8  |
| 1985-86        | 0.0 | 0.0 | T   | 1.2 | 16.5 | 1.4  | 0.0  | T    | 1.4  | 0.4 | T   | 0.0 | 20.9  |
| 1986-87        | 0.0 | 0.0 | T   | 0.0 | 0.2  | 0.6  | 1.8  | 8.0  | 2.5  | T   | 0.0 | 0.0 | 13.1  |
| 1987-88        | 0.0 | 0.0 | 0.0 | 0.0 | 0.8  | 6.3  | 8.2  | 0.0  | T    | T   | T   | 0.0 | 15.3  |
| 1988-89        | 0.0 | 0.0 | 0.0 | 0.0 | 4.1  | 11.7 | 3.3  | 13.3 | 2.2  | 0.8 | T   | 0.0 | 35.4  |
| 1989-90        | 0.0 | 0.0 | 0.0 | T   | T    | T    | 5.6  | 21.6 | 2.0  | 0.0 | 0.0 | 0.0 | 29.2  |
| 1990-91        | 0.0 | 0.0 | 0.0 | 0.0 | 0.4  | 2.7  | 0.1  | 0.0  | 4.5  | T   | 1.6 | 0.0 | 9.3   |
| 1991-92        | 0.0 | 0.0 | 0.0 | T   | 5.0  | 1.4  | 0.4  | 1.3  | T    | 0.0 | 0.0 | 0.0 | 8.1   |
| 1992-93        | 0.0 | 0.0 | 0.0 | 0.0 | T    | 14.3 | 22.9 | 13.0 | 0.0  | 0.0 | T   | 0.0 | 50.2  |
| 1993-94        | 0.0 | 0.0 | T   | T   | T    | 0.3  | 0.5  | 5.2  | T    | T   | T   | 0.0 | 6.0   |
| 1994-95        | 0.0 | 0.0 | 0.0 | 0.0 | 15.3 | 0.5  | 8.2  | 1.9  | 1.7  | 1.1 | T   | 0.2 | 28.9  |
| 1995-96        | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  |      | 1.2  |      |      |     |     |     |       |
| 1996-97        |     |     |     |     |      |      |      |      |      |     |     |     |       |
| 1997-98        |     |     |     |     |      |      |      |      |      |     |     |     |       |
| 1998-99        |     |     |     |     |      |      |      |      |      |     |     |     |       |
| 1999-00        |     |     |     |     |      |      |      |      |      |     |     |     |       |
| 2000-01        |     |     |     |     |      |      |      |      |      |     |     |     |       |
| 2001-02        |     |     |     |     |      |      |      |      |      |     |     |     |       |
| 2002-03        |     |     |     |     |      |      |      |      |      |     |     |     |       |
| 2003-          |     |     |     |     |      |      |      |      |      |     |     |     |       |
| POR=<br>53 YRS | 0.0 | 0.0 | 0.0 | 0.3 | 2.4  | 4.3  | 5.7  | 5.1  | 4.2  | 1.2 | 0.8 | 0.0 | 24.0  |

WBAN : 23185

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> |
|---|--|

2003  
RENO,  
NEVADA (RNO)

At an elevation of 4,400 feet above mean sea level, Reno is located at the west edge of Truckee Meadows in a semi-arid plateau lying in the lee of the Sierra Nevada Mountain Range. To the west, the Sierras rise to elevations of 9,000 to 11,000 feet. Hills to the east reach 6,000 to 7,000 feet. The Truckee River, flowing from the Sierras eastward through Reno, drains into Pyramid Lake to the northeast of the city.

The daily temperatures on the whole are mild, but the difference between the high and low often exceeds 45 degrees. While the afternoon high may exceed 90 degrees, a light wrap is often needed shortly after sunset. Nights with low temperatures over 60 degrees are rare. Afternoon temperatures in winter are moderate.

Based on the 1951-1980 period, the average first occurrence of 32 degrees Fahrenheit in the fall is September 16 and the average last occurrence in the spring is June 1.

More than half of the precipitation in Reno occurs mainly as mixed rain and snow, and falls from December to March. Although there is an average of about 25 inches of snow a year, it seldom remains on the ground for more than three or four days at a time. Summer rain comes mainly as brief thunderstorms in the middle and late afternoons. While precipitation is scarce, considerable water is available from the high altitude reservoirs in the Sierra Nevada, where precipitation is heavy.

Humidity is very low during the summer months, and moderately low during the winter. Fogs are rare, and are usually confined to the early morning hours of midwinter. Sunshine is abundant throughout the year.

# STATION LOCATION

RENO, NEVADA

| LOCATION   | Occupied From | Occupied To | Airline Distances and Directions from previous Location | LATITUDE NORTH | LONGITUDE WEST | ELEVATION ABOVE |             |                 |                      |              |                 |               |               |                  |   | AUTOMATED OBSERVING EQUIPMENT *  | * TYPE<br><br>M = AMOS<br>T = AUTOB<br>S = ASOS<br>W = AWOS<br><br>REMARKS |
|--|---------------|-------------|---|----------------|----------------|-----------------|-------------|-----------------|----------------------|--------------|-----------------|---------------|---------------|------------------|---|--|--|
|  |               |             |   |                |                | SEA LEVEL       |             | GROUND          |                      |              |                 |               |               |                  |   |  |  |
|  |               |             |   |                |                | GROUND          | TEMPERATURE | WIND INSTRUMENT | EXTREME THERMOMETERS | PSYCHROMETER | SUNSHINE SWITCH | TIPPING GAUGE | RAINING GAUGE | 8 INCH RAIN GAGE | HYGROMETER  |  |  |
| <b>*NOTE:</b>  |               |             |   |                |                |                 |             |                 |                      |              |                 |               |               |                  |   |  |  |
| <b><u>AIRPORT</u></b>  |               |             |   |                |                |                 |             |                 |                      |              |                 |               |               |                  |   |  |  |
| Hubbard Field<br>(Later changed to United Airlines AP)                                     | 1/08/31       | 5/31/49     | 3.5 mi. SSE   | 39°30'         | 119°47'        | 4397            | 52          | 20              | 20                   |              | 5               | 5             | 4             |                  |   |  |  |
| CAA Building<br>Reno Municipal Airport   | 6/01/49       | 10/23/59    | 60 ft. S  | 39°30'         | 119°47'        | 4397            | 53          | 6               | 6                    |              | 4               | a5            | a3            |                  | Name changed from United Airlines Airport 12/1/53.<br>a. Shielded 10/25/57. |  |  |
| Federal Facilities Bldg<br>Municipal Airport + *<br>+ International AP<br>effective 2/3/70 | 10/23/59      | 8/13/80     | 0.8 mi. NNW   | 39°30'         | 119°47'        | 4404            | 20          | c6              | c6                   | %17          | NA              | c5            | c4            | b4               | NA  | b. Commissioned 11/3/59 about 3/4 mile SE of office and moved 2350 ft. N by W 11/16/63.<br>c. Minor move 5/12/78.<br>% - Commissioned 11/3/59. |  |
| * Cannon International<br>Airport eff. 8/79.   |               |             |   |                |                |                 |             |                 |                      |              |                 |               |               |                  |   |  |  |
| General Aviation Bldg.<br>Cannon International AP  | 8/13/80       | 09/01/95    | 0.25mi. ESE   | 39°30'         | 119°47'        | 4404            | e30         | 5               | 5                    | 17           | NA              | 4             | 4             | d4<br>f4         | NA  | d. Not moved 8/13/80.<br>e. Not moved but raised at prior site 8/13/80.<br>f. Type change 11/22/84.  |  |
| Cannon International AP  | 09/01/95      | Present     | NA  | 39°29'         | 119°46'        | g4404           |             |                 |                      |              |                 |               |               |                  | S   | ASOS Commissioned 09/01/95<br>g. Ground elevation.   |  |

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