

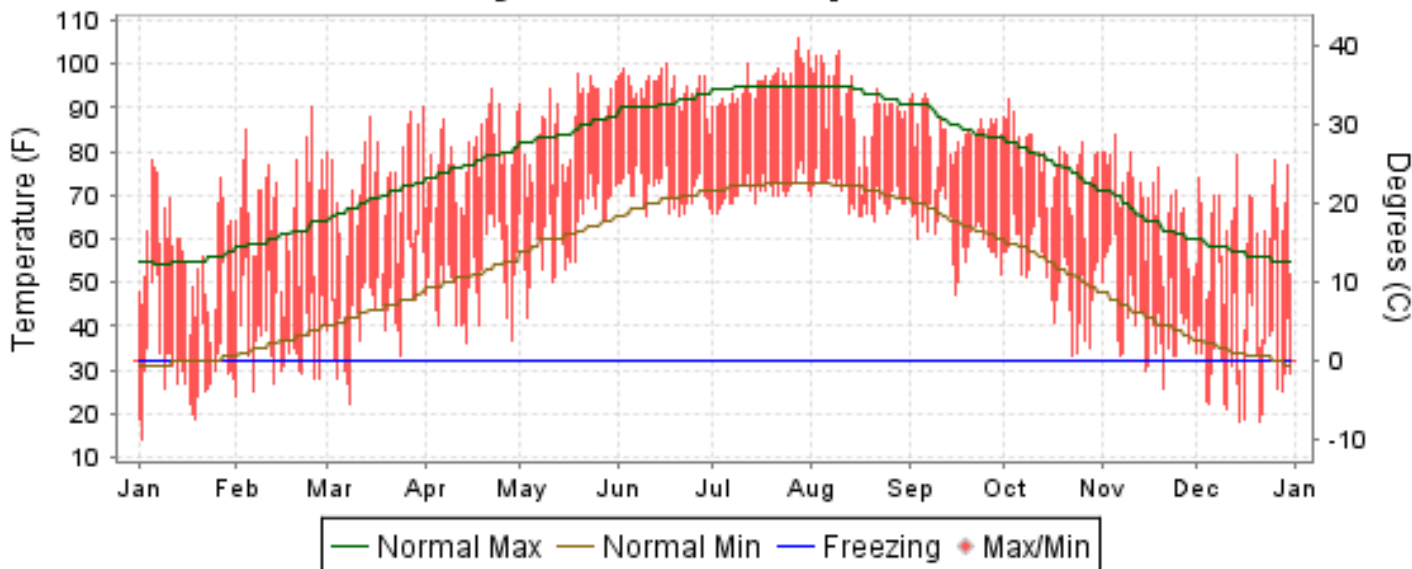


# 2008 LOCAL CLIMATOLOGICAL DATA ANNUAL SUMMARY WITH COMPARATIVE DATA

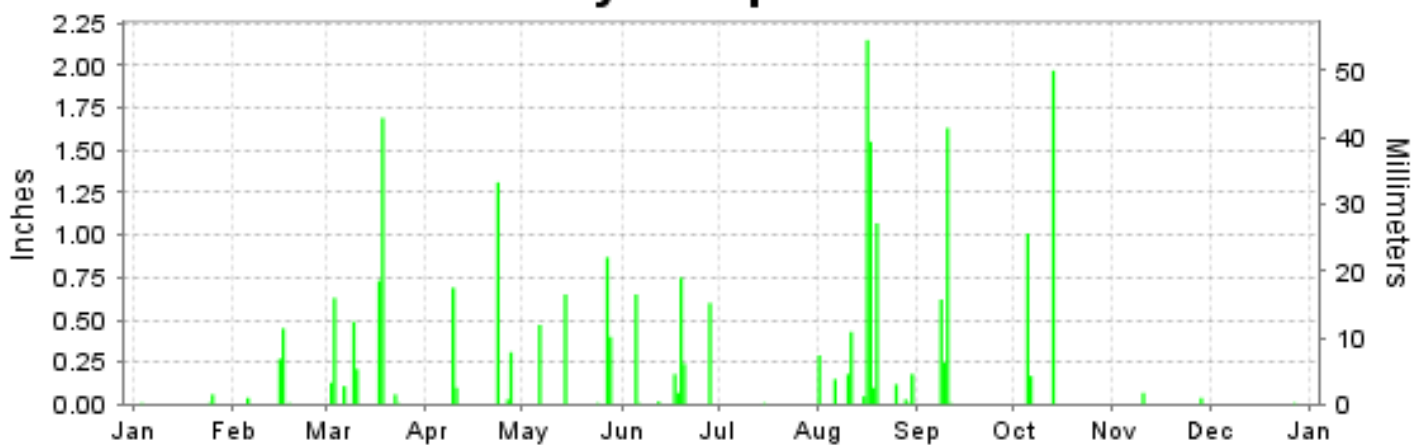
ISSN 0198-4888

## ABILENE, TEXAS (KABI)

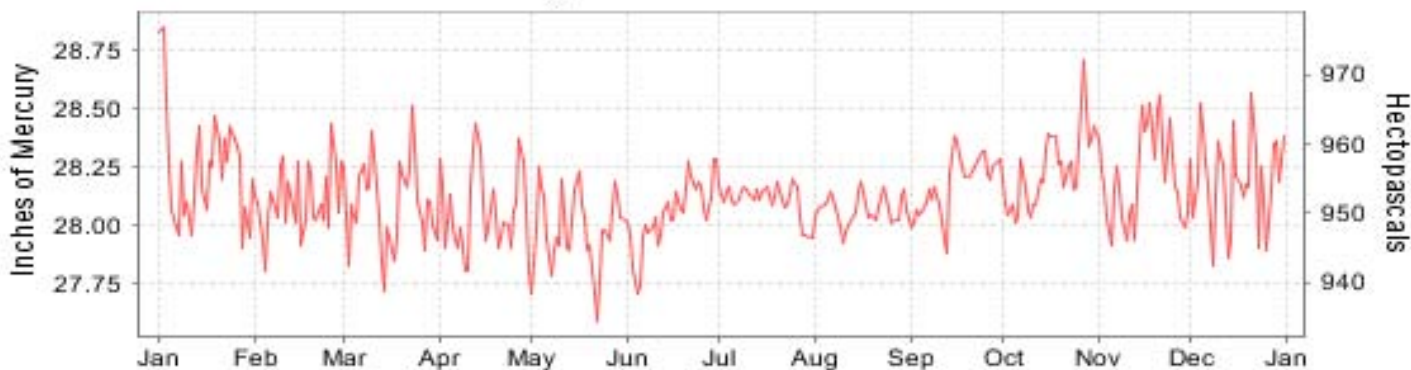
### Daily Max/Min Temperature



### Daily Precipitation



### Daily Station Pressure



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NATIONAL  
ENVIRONMENTAL SATELLITE, DATA  
AND INFORMATION SERVICE

NATIONAL  
CLIMATIC DATA CENTER  
ASHEVILLE, NORTH CAROLINA

*Thomas R. Karl*  
DIRECTOR  
NATIONAL CLIMATIC DATA CENTER

# METEOROLOGICAL DATA FOR 2008

## ABILENE (KABI)

LATITUDE: 32 ° 24'N      LONGITUDE: -99 ° 40'W      ELEVATION (FT): GRND: 1786    BARO: 1787      TIME ZONE: CENTRAL (UTC -6)      WBAN: 13962

| ELEMENT                  |                             | JAN   | FEB   | MAR   | APR   | MAY   | JUN   | JUL   | AUG   | SEP   | OCT   | NOV   | DEC    | YEAR      |  |
|--------------------------|-----------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-----------|--|
| TEMPERATURE °F           | MEAN DAILY MAXIMUM          | 57.2  | 67.2  | 70.6  | 78.8  | 86.4  | 94.4  | 95.7  | 91.1  | 84.6  | 78.2  | 68.4  | 60.2   | 77.7      |  |
|                          | HIGHEST DAILY MAXIMUM       | 78    | 90    | 90    | 94    | 98    | 100   | 106   | 103   | 93    | 92    | 84    | 79     | 106       |  |
|                          | DATE OF OCCURRENCE          | 05    | 25    | 31    | 22    | 19    | 16    | 28    | 10    | 06+   | 03    | 05    | 14     | JUL 28    |  |
|                          | MEAN DAILY MINIMUM          | 31.5  | 37.1  | 43.5  | 50.9  | 61.8  | 70.9  | 71.1  | 69.7  | 61.3  | 51.4  | 41.6  | 32.7   | 52.0      |  |
|                          | LOWEST DAILY MINIMUM        | 14    | 24    | 22    | 36    | 42    | 65    | 66    | 64    | 47    | 33    | 26    | 18     | 14        |  |
|                          | DATE OF OCCURRENCE          | 02    | 01    | 08    | 14    | 03    | 20+   | 02+   | 21    | 16    | 23    | 21    | 21+    | JAN 02    |  |
|                          | AVERAGE DRY BULB            | 44.4  | 52.2  | 57.1  | 64.9  | 74.1  | 82.7  | 83.4  | 80.4  | 73.0  | 64.8  | 55.0  | 46.5   | 64.9      |  |
|                          | MEAN WET BULB               | 36.7  | 41.6  | 48.1  | 62.3  | 69.1  | 68.7  | 69.5  | 69.5  | 63.1  | 54.7  | 45.3  | 37.7   |           |  |
|                          | MEAN DEW POINT              | 25.6  | 28.8  | 38.8  |       | 54.2  | 62.0  | 60.9  | 64.1  | 56.9  | 46.3  | 34.5  | 24.5   |           |  |
|                          | NUMBER OF DAYS WITH:        |       |       |       |       |       |       |       |       |       |       |       |        |           |  |
|                          | MAXIMUM >= 90°              | 0     | 1     | 1     | 3     | 14    | 27    | 31    | 19    | 5     | 1     | 0     | 0      | 102       |  |
| MAXIMUM <= 32°           | 0                           | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 1     | 1      |           |  |
| MINIMUM <= 32°           | 20                          | 9     | 5     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 3     | 16    | 53     |           |  |
| MINIMUM <= 0°            | 0                           | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0      |           |  |
| H/C                      | HEATING DEGREE DAYS         | 632   | 373   | 281   | 98    | 17    | 0     | 0     | 0     | 1     | 96    | 308   | 570    | 2376      |  |
|                          | COOLING DEGREE DAYS         | 1     | 10    | 43    | 103   | 307   | 537   | 578   | 488   | 247   | 96    | 18    | 4      | 2432      |  |
| RH                       | MEAN (PERCENT)              | 54    | 48    | 56    | 52    | 55    | 53    | 52    | 64    | 63    | 57    | 52    | 46     | 54        |  |
|                          | HOUR 00 LST                 | 62    | 54    | 62    | 62    | 63    | 60    | 58    | 72    | 73    | 65    | 57    | 51     | 62        |  |
|                          | HOUR 06 LST                 | 65    | 62    | 71    | 71    | 74    | 76    | 75    | 82    | 82    | 74    | 68    | 59     | 72        |  |
|                          | HOUR 12 LST                 | 44    | 39    | 47    | 42    | 43    | 45    | 41    | 52    | 49    | 45    | 40    | 38     | 44        |  |
|                          | HOUR 18 LST                 | 40    | 33    | 40    | 31    | 36    | 34    | 33    | 47    | 44    | 42    | 37    | 34     | 38        |  |
| S                        | PERCENT POSSIBLE SUNSHINE   |       |       |       |       |       |       |       |       |       |       |       |        |           |  |
| W/O                      | NUMBER OF DAYS WITH:        |       |       |       |       |       |       |       |       |       |       |       |        |           |  |
|                          | HEAVY FOG(VISBY <= 1/4 MI)  | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0      | 0         |  |
|                          | THUNDERSTORMS               | 0     | 2     | 6     | 3     | 3     | 7     | 0     | 5     | 1     | 2     | 0     | 0      | 29        |  |
| CLOUDNESS                | SUNRISE-SUNSET: (OKTAS)     |       |       |       |       |       |       |       |       |       |       |       |        |           |  |
|                          | CEILOMETER (<= 12,000 FT.)  |       |       |       |       |       |       |       |       |       |       |       |        |           |  |
|                          | SATELLITE (> 12,000 FT.)    |       |       |       |       |       |       |       |       |       |       |       |        |           |  |
|                          | MIDNIGHT-MIDNIGHT: (OKTAS)  |       |       |       |       |       |       |       |       |       |       |       |        |           |  |
|                          | CEILOMETER (<= 12,000 FT.)  |       |       |       |       |       |       |       |       |       |       |       |        |           |  |
| SATELLITE (> 12,000 FT.) |                             |       |       |       |       |       |       |       |       |       |       |       |        |           |  |
| NUMBER OF DAYS WITH:     |                             |       |       |       |       |       |       |       |       |       |       |       |        |           |  |
| CLEAR                    |                             |       |       |       |       |       |       |       |       |       |       |       |        |           |  |
| PARTLY CLOUDY            |                             |       |       |       |       |       |       |       |       |       |       |       |        |           |  |
| CLOUDY                   |                             |       |       |       |       |       |       |       |       |       |       |       |        |           |  |
| PR                       | MEAN STATION PRESS. (IN.)   | 28.25 | 28.11 | 28.10 | 28.06 | 27.99 | 28.04 | 28.10 | 28.07 | 28.17 | 28.24 | 28.22 | 28.20  | 28.13     |  |
|                          | MEAN SEA-LEVEL PRESS. (IN.) | 30.15 | 29.98 | 29.95 | 29.90 | 29.80 | 29.85 | 29.91 | 29.88 | 30.00 | 30.09 | 30.08 | 30.09  | 29.97     |  |
| WINDS                    | RESULTANT SPEED (MPH)       | 5.3   | 3.6   | 3.4   | 5.0   | 6.0   | 10.5  | 7.7   | 3.2   | 3.1   | 4.9   | 3.2   | 3.2    | 4.5       |  |
|                          | RES. DIR. (TENS OF DEGS.)   | 19    | 22    | 19    | 17    | 16    | 17    | 16    | 14    | 11    | 16    | 20    | 19     | 18        |  |
|                          | MEAN SPEED (MPH)            | 12.1  | 12.3  | 13.4  | 13.9  | 12.8  | 13.7  | 10.6  | 7.4   | 8.0   | 10.5  | 10.2  | 12.2   | 11.4      |  |
|                          | PREVAIL.DIR.(TENS OF DEGS.) | 17    | 21    | 20    | 17    | 16    | 17    | 17    | 15    | 15    | 14    | 20    | 18     | 17        |  |
|                          | MAXIMUM 2-MINUTE WIND       |       |       |       |       |       |       |       |       |       |       |       |        |           |  |
|                          | SPEED (MPH)                 | 40    | 38    | 39    | 36    | 38    | 52    | 36    | 46    | 30    | 29    | 36    | 39     | 52        |  |
|                          | DIR. (TENS OF DEGS.)        | 33    | 35    | 33    | 24    | 30    | 35    | 15    | 09    | 34    | 36    | 33    | 30     | 35        |  |
|                          | DATE OF OCCURRENCE          | 29    | 25    | 09    | 10    | 24    | 19    | 08    | 01    | 13    | 22    | 05    | 27     | JUN 19    |  |
|                          | MAXIMUM 3-SECOND WIND:      |       |       |       |       |       |       |       |       |       |       |       |        |           |  |
|                          | SPEED (MPH)                 | 49    | 44    | 55    | 45    | 47    | 62    | 43    | 54    | 38    | 36    | 41    | 49     | 62        |  |
| DIR. (TENS OF DEGS.)     | 32                          | 34    | 35    | 07    | 30    | 35    | 15    | 11    | 35    | 02    | 01    | 30    | 35     |           |  |
| DATE OF OCCURRENCE       | 29                          | 25    | 02    | 26    | 24    | 19    | 08    | 01    | 13    | 26    | 14    | 27    | JUN 19 |           |  |
| PRECIPITATION            | WATER EQUIVALENT:           |       |       |       |       |       |       |       |       |       |       |       |        |           |  |
|                          | TOTAL (IN.)                 | 0.08  | 0.77  | 4.06  | 2.44  | 2.40  | 2.52  | 0.01  | 6.31  | 2.51  | 3.15  | 0.11  | 0.01   | 24.37     |  |
|                          | GREATEST 24-HOUR (IN.)      | 0.07  | 0.72  | 2.19  | 1.31  | 1.27  | 0.99  | 0.01  | 2.15  | 1.64  | 1.97  | 0.07  | 0.01   | 2.19      |  |
|                          | DATE OF OCCURRENCE          | 24-25 | 15-16 | 17-18 | 23    | 27-28 | 19-20 | 15    | 16    | 09-10 | 13    | 10    | 27     | MAR 17-18 |  |
|                          | NUMBER OF DAYS WITH:        |       |       |       |       |       |       |       |       |       |       |       |        |           |  |
|                          | PRECIPITATION 0.01          | 3     | 4     | 9     | 5     | 5     | 8     | 1     | 13    | 4     | 3     | 2     | 1      | 58        |  |
| PRECIPITATION 0.10       | 0                           | 2     | 7     | 4     | 4     | 5     | 0     | 10    | 3     | 3     | 1     | 0     | 39     |           |  |
| PRECIPITATION 1.00       | 0                           | 0     | 1     | 1     | 0     | 0     | 0     | 3     | 1     | 2     | 0     | 0     | 8      |           |  |
| SNOWFALL                 | SNOW,ICE PELLETS,HAIL       |       |       |       |       |       |       |       |       |       |       |       |        |           |  |
|                          | TOTAL (IN.)                 | 0.0   | 0.0   | 1.3   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 1.3       |  |
|                          | GREATEST 24-HOUR (IN.)      | 0.0   | 0.0   | 0.7   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.7       |  |
|                          | DATE OF OCCURRENCE          |       |       | 06    |       |       |       |       |       |       |       |       |        | MAR 06    |  |
|                          | MAXIMUM SNOW DEPTH (IN.)    | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0      | 0         |  |
|                          | DATE OF OCCURRENCE          |       |       |       |       |       |       |       |       |       |       |       |        |           |  |
| NUMBER OF DAYS WITH:     |                             |       |       |       |       |       |       |       |       |       |       |       |        |           |  |
| SNOWFALL >= 1.0          | 0                           | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0      |           |  |

# NORMALS, MEANS, AND EXTREMES ABILENE (KABI)

LATITUDE:  
32 ° 24'N

LONGITUDE:  
-99 ° 40'W

ELEVATION (FT):  
GRND: 1786 BARO: 1787

TIME ZONE:  
CENTRAL (UTC -6)

WBAN: 13962

|  | ELEMENT   | POR  | JAN   | FEB   | MAR   | APR   | MAY   | JUN   | JUL   | AUG   | SEP   | OCT   | NOV   | DEC   | YEAR     |
|--|---|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|
| TEMPERATURE °F                           | NORMAL DAILY MAXIMUM                              | 30   | 55.2  | 60.7  | 69.1  | 77.3  | 84.7  | 91.1  | 94.8  | 93.7  | 86.7  | 77.6  | 65.1  | 56.9  | 76.1     |
|  | MEAN DAILY MAXIMUM                                | 61   | 55.8  | 60.4  | 68.5  | 77.5  | 84.4  | 91.0  | 94.8  | 94.2  | 87.0  | 77.6  | 65.6  | 57.8  | 76.2     |
|  | HIGHEST DAILY MAXIMUM                             | 69   | 89    | 93    | 97    | 99    | 109   | 109   | 110   | 109   | 107   | 103   | 92    | 89    | 110      |
|  | YEAR OF OCCURRENCE                                |      | 1943  | 1996  | 1974  | 1948  | 2000  | 1994  | 1978  | 1943  | 2000  | 1979  | 1980  | 1955  | JUL 1978 |
|  | MEAN OF EXTREME MAXS.                             | 61   | 77.4  | 81.6  | 87.1  | 92.5  | 97.5  | 99.9  | 101.7 | 101.6 | 97.6  | 91.5  | 82.9  | 77.6  | 90.7     |
|  | NORMAL DAILY MINIMUM                              | 30   | 31.8  | 36.5  | 43.8  | 51.8  | 61.0  | 68.5  | 72.3  | 71.4  | 64.4  | 54.4  | 42.3  | 33.9  | 52.7     |
|  | MEAN DAILY MINIMUM                                | 61   | 32.1  | 36.2  | 43.3  | 52.4  | 61.2  | 68.6  | 72.4  | 71.6  | 64.5  | 54.3  | 42.4  | 34.2  | 52.8     |
|  | LOWEST DAILY MINIMUM                              | 69   | -9    | -7    | 7     | 25    | 36    | 47    | 55    | 50    | 35    | 23    | 14    | -7    | -9       |
|  | YEAR OF OCCURRENCE                                |      | 1947  | 1985  | 1943  | 1973  | 1979  | 1964  | 1940  | 1992  | 1942  | 1993  | 1976  | 1989  | JAN 1947 |
|  | MEAN OF EXTREME MINS.                             | 61   | 14.8  | 18.6  | 24.0  | 34.6  | 45.8  | 58.2  | 64.9  | 63.2  | 49.0  | 37.4  | 25.0  | 17.3  | 37.7     |
|  | NORMAL DRY BULB                                   | 30   | 43.5  | 48.6  | 56.4  | 64.6  | 72.8  | 79.8  | 83.5  | 82.6  | 75.5  | 66.0  | 53.7  | 45.4  | 64.4     |
|  | MEAN DRY BULB                                     | 61   | 44.0  | 48.3  | 55.9  | 65.0  | 72.8  | 79.9  | 83.6  | 82.9  | 75.8  | 66.0  | 54.0  | 46.0  | 64.5     |
|  | MEAN WET BULB                                     | 25   | 36.8  | 40.0  | 46.6  | 53.8  | 62.5  | 68.1  | 69.2  | 68.9  | 64.1  | 55.9  | 45.7  | 37.8  | 54.1     |
|  | MEAN DEW POINT                                    | 25   | 30.6  | 33.9  | 39.9  | 46.4  | 57.6  | 64.0  | 64.1  | 63.9  | 59.4  | 51.0  | 40.4  | 32.0  | 48.6     |
|  | NORMAL NO. DAYS WITH:<br>MAXIMUM >= 90            | 30   | 0.0   | 0.1   | 0.6   | 2.5   | 8.7   | 18.7  | 26.3  | 24.6  | 12.5  | 2.2   | *     | 0.0   | 96.2     |
|  | MAXIMUM <= 32                                     | 30   | 1.9   | 1.1   | 0.1   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.2   | 1.2   | 4.5      |
| MINIMUM <= 32                            | 30  | 16.5 | 10.0  | 3.9   | 0.6   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.3   | 5.3   | 14.1  | 50.7  |          |
| MINIMUM <= 0                             | 30  | *    | *     | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.1   | 0.1   |          |
| H/C                                      | NORMAL HEATING DEG. DAYS                          | 30   | 678   | 477   | 299   | 113   | 20    | 0     | 0     | 0     | 18    | 93    | 353   | 608   | 2659     |
|  | NORMAL COOLING DEG. DAYS                          | 30   | 0     | 5     | 28    | 94    | 253   | 442   | 568   | 535   | 327   | 118   | 15    | 1     | 2386     |
| RH                                       | NORMAL (PERCENT)                                  | 30   | 61    | 60    | 56    | 55    | 61    | 61    | 55    | 55    | 60    | 62    | 63    | 64    | 59       |
|  | HOURLY 00 LST                                     | 30   | 67    | 66    | 62    | 63    | 69    | 67    | 60    | 62    | 68    | 68    | 71    | 68    | 66       |
|  | HOURLY 06 LST                                     | 30   | 73    | 73    | 71    | 73    | 80    | 80    | 74    | 75    | 78    | 77    | 77    | 74    | 75       |
|  | HOURLY 12 LST                                     | 30   | 53    | 52    | 47    | 45    | 51    | 51    | 46    | 47    | 52    | 52    | 53    | 54    | 50       |
|  | HOURLY 18 LST                                     | 30   | 49    | 47    | 40    | 39    | 44    | 44    | 39    | 40    | 47    | 48    | 53    | 53    | 45       |
| S  | PERCENT POSSIBLE SUNSHINE                         | 49   | 62    | 64    | 70    | 72    | 70    | 78    | 80    | 77    | 70    | 72    | 67    | 63    | 70       |
| W/O                                      | MEAN NO. DAYS WITH:<br>HEAVY FOG(VISBY <= 1/4 MI) | 45   | 1.4   | 1.3   | 0.9   | 0.5   | 0.4   | 0.2   | 0.1   | 0.1   | 0.5   | 0.7   | 1.2   | 1.4   | 8.7      |
|  | THUNDERSTORMS                                     | 61   | 0.5   | 1.3   | 2.8   | 4.5   | 7.3   | 6.0   | 4.6   | 5.1   | 3.4   | 2.9   | 1.4   | 0.7   | 40.5     |
| CLOUDNESS                                | MEAN:<br>SUNRISE-SUNSET (OKTAS)                   | 57   | 4.5   | 4.6   | 4.3   | 4.1   | 4.4   | 3.6   | 3.5   | 3.5   | 3.6   | 3.4   | 3.8   | 4.2   | 4.0      |
|  | MIDNIGHT-MIDNIGHT (OKTAS)                         | 32   | 4.1   | 4.1   | 3.8   | 3.7   | 3.9   | 3.3   | 2.9   | 3.2   | 3.4   | 3.0   | 3.5   | 3.8   | 3.6      |
|  | MEAN NO. DAYS WITH:<br>CLEAR                      | 58   | 11.1  | 9.9   | 11.4  | 11.7  | 9.9   | 12.6  | 14.1  | 14.1  | 13.5  | 14.9  | 13.2  | 11.7  | 148.1    |
|  | PARTLY CLOUDY                                     | 58   | 6.1   | 6.2   | 7.5   | 7.8   | 10.0  | 10.6  | 9.7   | 9.6   | 7.8   | 6.8   | 5.9   | 6.2   | 94.2     |
|  | CLOUDY  | 58   | 13.7  | 12.2  | 12.1  | 10.5  | 11.1  | 6.8   | 6.7   | 6.8   | 8.3   | 8.8   | 10.4  | 12.6  | 120.0    |
| PR                                       | MEAN STATION PRESSURE(IN)                         | 25   | 28.23 | 28.19 | 28.12 | 28.07 | 28.05 | 28.07 | 28.13 | 28.13 | 28.14 | 28.17 | 28.19 | 28.23 | 28.14    |
|  | MEAN SEA-LEVEL PRES. (IN)                         | 25   | 30.12 | 30.07 | 29.98 | 29.91 | 29.87 | 29.88 | 29.93 | 29.94 | 29.96 | 30.01 | 30.06 | 30.12 | 29.99    |
| WINDS                                    | MEAN SPEED (MPH)                                  | 25   | 10.9  | 11.5  | 12.6  | 12.9  | 12.1  | 11.2  | 10.1  | 8.9   | 9.2   | 10.4  | 10.9  | 10.7  | 11.0     |
|  | PREVAIL.DIR.(TENS OF DEGS)                        | 29   | 36    | 36    | 17    | 17    | 17    | 17    | 17    | 17    | 17    | 19    | 19    | 21    | 17       |
|  | MAXIMUM 2-MINUTE:<br>SPEED (MPH)                  | 12   | 40    | 46    | 39    | 55    | 46    | 52    | 48    | 55    | 43    | 38    | 45    | 40    | 55       |
|  | DIR. (TENS OF DEGS)                               |      | 33    | 27    | 33    | 27    | 31    | 35    | 30    | 19    | 35    | 36    | 32    | 30    | 27       |
|  | YEAR OF OCCURRENCE                                |      | 2008  | 2007  | 2008  | 1998  | 2007  | 2008  | 1998  | 1997  | 2001  | 1999  | 2006  | 2003  | APR 1998 |
|  | MAXIMUM 3-SECOND<br>SPEED (MPH)                   | 12   | 49    | 59    | 55    | 68    | 62    | 62    | 60    | 67    | 49    | 47    | 56    | 51    | 68       |
|  | DIR. (TENS OF DEGS)                               |      | 32    | 27    | 35    | 27    | 33    | 35    | 29    | 19    | 35    | 35    | 28    | 30    | 27       |
|  | YEAR OF OCCURRENCE                                |      | 2008  | 2007  | 2008  | 1998  | 2002  | 2008  | 1998  | 1997  | 2001  | 1999  | 2005  | 2003  | APR 1998 |
| PRECIPITATION                            | NORMAL (IN)                                       | 30   | 0.97  | 1.13  | 1.41  | 1.67  | 2.83  | 3.06  | 1.70  | 2.63  | 2.91  | 2.90  | 1.30  | 1.27  | 23.78    |
|  | MAXIMUM MONTHLY (IN)                              | 69   | 4.35  | 3.60  | 5.16  | 6.80  | 13.19 | 9.60  | 8.04  | 8.18  | 11.03 | 10.68 | 5.12  | 6.28  | 13.19    |
|  | YEAR OF OCCURRENCE                                |      | 1968  | 1992  | 1979  | 1966  | 1957  | 1961  | 2002  | 1969  | 1974  | 1981  | 2004  | 1991  | MAY 1957 |
|  | MINIMUM MONTHLY (IN)                              | 69   | T     | 0.00  | 0.03  | T     | 0.15  | T     | T     | 0.00  | T     | 0.00  | 0.00  | T     | 0.00     |
|  | YEAR OF OCCURRENCE                                |      | 1967  | 1999  | 1963  | 1961  | 1956  | 1994  | 1970  | 2000  | 1956  | 1952  | 1949  | 1972  | AUG 2000 |
|  | MAXIMUM IN 24 HOURS (IN)                          | 69   | 2.18  | 1.94  | 2.24  | 3.75  | 4.76  | 3.66  | 5.67  | 6.30  | 6.70  | 6.08  | 2.43  | 2.62  | 6.70     |
|  | YEAR OF OCCURRENCE                                |      | 1961  | 1992  | 1998  | 1957  | 1990  | 1959  | 2002  | 1978  | 1961  | 1981  | 1975  | 1991  | SEP 1961 |
|  | NORMAL NO. DAYS WITH:<br>PRECIPITATION >= 0.01    | 30   | 5.1   | 4.9   | 5.3   | 5.1   | 7.7   | 6.4   | 5.1   | 5.9   | 6.5   | 6.2   | 4.7   | 5.1   | 68.0     |
|  | PRECIPITATION >= 1.00                             | 30   | 0.1   | 0.1   | 0.3   | 0.4   | 0.8   | 1.1   | 0.4   | 0.8   | 0.9   | 0.8   | 0.2   | 0.3   | 6.2      |
| SNOWFALL                                 | NORMAL (IN)                                       | 30   | 2.6   | 1.0   | 0.3   | 0.3   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.*   | 0.6   | 0.8   | 5.6      |
|  | MAXIMUM MONTHLY (IN)                              | 63   | 13.5  | 8.4   | 7.3   | 9.3   | T     | T     | T     | T     | 0.0   | 0.3   | 8.1   | 7.8   | 13.5     |
|  | YEAR OF OCCURRENCE                                |      | 1973  | 1956  | 1970  | 1996  | 2006  | 1993  | 1995  | 1997  |       | 1993  | 1968  | 1983  | JAN 1973 |
|  | MAXIMUM IN 24 HOURS (IN)                          | 63   | 7.5   | 4.5   | 6.1   | 9.3   | T     | T     | T     | T     | 0.0   | 0.3   | 5.3   | 4.3   | 9.3      |
|  | YEAR OF OCCURRENCE                                |      | 1973  | 1979  | 1970  | 1996  | 1995  | 1993  | 1995  | 1997  |       | 1993  | 1976  | 2004  | APR 1996 |
|  | MAXIMUM SNOW DEPTH (IN)                           | 54   | 22    | 13    | 9     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 7     | 11    | 22       |
|  | YEAR OF OCCURRENCE                                |      | 1973  | 1963  | 1989  |       |       |       |       |       |       |       | 1976  | 1983  | JAN 1973 |
| NORMAL NO. DAYS WITH:<br>SNOWFALL >= 1.0 | 30  | 0.8  | 0.4   | 0.1   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.2   | 0.4   | 1.9   |          |

**PRECIPITATION (inches) 2008 ABILENE (KABI)**

| YEAR           | JAN  | FEB  | MAR  | APR  | MAY  | JUN  | JUL  | AUG  | SEP  | OCT   | NOV  | DEC  | ANNUAL |
|----------------|------|------|------|------|------|------|------|------|------|-------|------|------|--------|
| 1979           | 0.72 | 1.10 | 5.16 | 1.72 | 1.86 | 2.89 | 1.55 | 1.55 | 0.01 | 0.53  | 0.65 | 2.62 | 20.36  |
| 1980           | 0.77 | 0.72 | 0.69 | 0.17 | 5.00 | 1.14 | 0.24 | 1.62 | 6.30 | 0.71  | 1.62 | 1.69 | 20.67  |
| 1981           | 1.20 | 1.06 | 2.36 | 3.52 | 1.48 | 2.73 | 1.69 | 0.63 | 1.74 | 10.68 | 0.43 | 0.25 | 27.77  |
| 1982           | 1.00 | 1.20 | 0.43 | 0.38 | 6.87 | 3.98 | 1.50 | 1.12 | 1.09 | 0.74  | 1.72 | 1.28 | 21.31  |
| 1983           | 2.28 | 0.12 | 1.95 | 0.54 | 1.42 | 3.86 | 2.57 | 0.10 | 0.87 | 3.25  | 1.77 | 0.77 | 19.50  |
| 1984           | 0.98 | 0.46 | 0.47 | 0.20 | 0.42 | 1.70 | 0.97 | 3.24 | 3.55 | 5.15  | 2.11 | 3.08 | 22.33  |
| 1985           | 0.53 | 1.50 | 2.86 | 0.90 | 4.03 | 1.78 | 1.71 | 3.66 | 1.28 | 2.43  | 1.56 | 0.03 | 22.27  |
| 1986           | 0.01 | 1.51 | 0.50 | 0.99 | 4.03 | 4.49 | 3.54 | 2.45 | 1.71 | 7.46  | 3.24 | 2.05 | 31.98  |
| 1987           | 0.54 | 3.55 | 1.55 | 0.87 | 4.58 | 1.86 | 1.91 | 4.17 | 2.12 | 0.21  | 1.16 | 4.55 | 27.07  |
| 1988           | 0.05 | 0.37 | 0.54 | 2.09 | 2.93 | 3.75 | 1.76 | 1.18 | 1.74 | 1.01  | T    | 0.80 | 16.22  |
| 1989           | 0.54 | 3.08 | 1.72 | 0.71 | 3.07 | 9.53 | 1.01 | 2.53 | 4.09 | 0.97  | 0.20 | 0.21 | 27.66  |
| 1990           | 1.94 | 2.36 | 2.43 | 4.57 | 5.06 | 0.36 | 4.27 | 0.77 | 4.79 | 1.73  | 2.26 | 0.81 | 31.35  |
| 1991           | 2.71 | 0.14 | 0.51 | 1.65 | 1.07 | 8.05 | 2.24 | 1.85 | 5.99 | 2.47  | 0.32 | 6.28 | 33.28  |
| 1992           | 1.87 | 3.60 | 0.83 | 2.02 | 3.51 | 4.81 | 2.70 | 1.99 | 1.79 | 1.19  | 2.57 | 1.00 | 27.88  |
| 1993           | 0.91 | 1.23 | 1.03 | 0.84 | 2.01 | 3.80 | 0.25 | 1.82 | 2.42 | 3.19  | 0.40 | 0.90 | 18.80  |
| 1994           | 1.10 | 0.76 | 0.08 | 3.43 | 9.03 | T    | 0.59 | 2.15 | 3.80 | 3.07  | 3.39 | 1.04 | 28.44  |
| 1995           | 1.25 | 0.43 | 1.53 | 1.13 | 5.83 | 1.67 | 2.07 | 5.25 | 2.41 | 0.99  | 0.32 | 0.23 | 23.11  |
| 1996           | 0.70 | 0.04 | 1.26 | 2.56 | 1.93 | 2.61 | 1.92 | 6.92 | 6.02 | 2.56  | 2.44 | T    | 28.96  |
| 1997           | 0.09 | 3.49 | 0.98 | 2.96 | 1.52 | 6.86 | 0.28 | 4.16 | 0.04 | 2.54  | 1.00 | 3.16 | 27.08  |
| 1998           | 1.17 | 0.68 | 3.19 | 0.35 | 0.72 | 1.97 | 1.31 | 0.46 | 0.07 | 1.52  | 1.06 | 1.37 | 13.87  |
| 1999           | 1.93 | 0.00 | 2.92 | 1.49 | 1.77 | 4.43 | 0.06 | 0.42 | 1.60 | 1.66  | 0.00 | 0.35 | 16.63  |
| 2000           | 0.17 | 0.44 | 0.88 | 0.64 | 2.59 | 5.48 | 0.01 | 0.00 | 1.08 | 7.01  | 2.91 | 0.91 | 22.12  |
| 2001           | 1.07 | 2.70 | 1.92 | 0.57 | 3.63 | 1.38 | 0.03 | 3.39 | 2.32 | 0.49  | 3.39 | 0.98 | 21.87  |
| 2002           | 0.47 | 1.16 | 4.01 | 0.46 | 3.24 | 0.81 | 8.04 | 1.07 | 2.05 | 4.37  | 0.93 | 1.33 | 27.94  |
| 2003           | 0.18 | 0.93 | 0.48 | 0.60 | 1.69 | 7.36 | 0.05 | 2.39 | 1.02 | 1.81  | 2.49 | 0.01 | 19.01  |
| 2004           | 1.65 | 2.90 | 1.29 | 5.03 | 1.73 | 4.04 | 1.55 | 5.02 | 0.20 | 8.11  | 5.12 | 0.73 | 37.37  |
| 2005           | 0.72 | 2.11 | 2.19 | 0.01 | 2.95 | 0.72 | 2.42 | 4.43 | 0.56 | 3.44  | T    | 0.11 | 19.66  |
| 2006           | 0.41 | 1.26 | 2.61 | 3.17 | 3.40 | 2.21 | 0.39 | 1.44 | 3.17 | 1.43  | 0.12 | 1.16 | 20.77  |
| 2007           | 1.59 | 0.32 | 4.28 | 2.14 | 5.63 | 7.86 | 2.41 | 7.07 | 1.21 | 1.93  | 1.03 | 0.37 | 35.84  |
| 2008           | 0.08 | 0.77 | 4.06 | 2.44 | 2.40 | 2.52 | 0.01 | 6.31 | 2.51 | 3.15  | 0.11 | 0.01 | 24.37  |
| POR=<br>61 YRS | 0.97 | 1.14 | 1.37 | 2.03 | 3.27 | 3.00 | 2.03 | 2.60 | 2.58 | 2.63  | 1.34 | 1.00 | 23.96  |

WBAN : 13962

**AVERAGE TEMPERATURE (°F) 2008 ABILENE (KABI)**

| YEAR           | JAN  | FEB  | MAR  | APR  | MAY  | JUN  | JUL  | AUG  | SEP  | OCT  | NOV  | DEC  | ANNUAL |
|----------------|------|------|------|------|------|------|------|------|------|------|------|------|--------|
| 1979           | 35.6 | 44.9 | 56.7 | 64.2 | 69.8 | 79.0 | 83.7 | 82.2 | 77.7 | 71.6 | 50.9 | 47.7 | 63.7   |
| 1980           | 45.2 | 47.9 | 54.8 | 63.9 | 72.1 | 84.4 | 89.4 | 86.1 | 77.7 | 64.9 | 52.6 | 49.3 | 65.7   |
| 1981           | 44.8 | 49.4 | 54.9 | 68.3 | 71.6 | 80.3 | 85.8 | 83.3 | 78.0 | 66.2 | 57.4 | 48.8 | 65.7   |
| 1982           | 44.8 | 44.7 | 58.3 | 62.9 | 72.1 | 78.8 | 84.1 | 85.6 | 77.6 | 65.9 | 54.4 | 45.8 | 64.6   |
| 1983           | 42.6 | 47.0 | 54.9 | 60.6 | 70.8 | 76.7 | 82.8 | 85.2 | 77.9 | 69.1 | 57.0 | 34.2 | 63.2   |
| 1984           | 39.5 | 49.9 | 55.3 | 63.6 | 75.3 | 83.1 | 83.7 | 83.1 | 73.1 | 63.8 | 52.7 | 48.8 | 64.3   |
| 1985           | 37.2 | 44.4 | 57.5 | 66.7 | 73.8 | 77.9 | 81.6 | 84.9 | 75.7 | 65.7 | 54.6 | 41.4 | 63.5   |
| 1986           | 47.9 | 50.8 | 60.6 | 68.6 | 73.9 | 79.3 | 84.3 | 81.8 | 77.4 | 63.5 | 51.2 | 43.9 | 65.3   |
| 1987           | 43.4 | 49.4 | 52.1 | 62.7 | 72.1 | 77.5 | 81.6 | 83.5 | 74.0 | 67.0 | 54.0 | 44.8 | 63.5   |
| 1988           | 41.7 | 45.2 | 55.4 | 64.0 | 71.1 | 78.9 | 81.7 | 83.9 | 76.3 | 66.4 | 57.9 | 47.4 | 64.2   |
| 1989           | 49.4 | 40.2 | 56.8 | 66.5 | 75.9 | 75.9 | 82.9 | 81.9 | 72.6 | 67.7 | 56.4 | 38.4 | 63.7   |
| 1990           | 50.0 | 53.0 | 56.4 | 62.8 | 72.1 | 84.9 | 79.7 | 82.1 | 76.8 | 64.5 | 57.1 | 42.9 | 65.2   |
| 1991           | 41.9 | 52.1 | 58.9 | 68.0 | 75.4 | 78.2 | 82.3 | 79.2 | 71.3 | 66.1 | 49.9 | 46.7 | 64.2   |
| 1992           | 43.1 | 50.6 | 58.8 | 64.9 | 69.4 | 78.2 | 81.1 | 78.0 | 76.0 | 68.7 | 51.5 | 47.8 | 64.0   |
| 1993           | 42.9 | 46.6 | 54.8 | 63.6 | 70.4 | 79.7 | 85.7 | 83.9 | 74.1 | 62.8 | 49.6 | 47.8 | 63.5   |
| 1994           | 44.1 | 46.8 | 57.5 | 64.0 | 70.2 | 83.2 | 83.8 | 82.6 | 72.9 | 65.9 | 55.1 | 47.9 | 64.5   |
| 1995           | 46.6 | 50.2 | 53.3 | 63.7 | 70.1 | 76.3 | 83.4 | 81.1 | 74.3 | 66.2 | 54.4 | 46.5 | 63.8   |
| 1996           | 43.2 | 51.4 | 52.2 | 63.1 | 78.6 | 80.2 | 84.4 | 80.0 | 72.2 | 64.6 | 53.3 | 48.9 | 64.3   |
| 1997           | 43.3 | 46.9 | 57.7 | 58.9 | 69.1 | 76.7 | 82.5 | 81.7 | 78.7 | 66.4 | 50.9 | 42.9 | 63.0   |
| 1998           | 48.8 | 49.1 | 53.5 | 62.5 | 79.2 | 83.8 | 87.6 | 83.8 | 81.2 | 69.4 | 56.9 | 45.0 | 66.7   |
| 1999           | 47.9 | 55.7 | 54.9 | 65.5 | 72.5 | 78.8 | 83.5 | 87.1 | 76.2 | 66.2 | 59.8 | 47.8 | 66.3   |
| 2000           | 49.2 | 55.8 | 60.3 | 67.7 | 79.4 | 78.3 | 85.7 | 86.9 | 78.5 | 67.0 | 48.1 | 39.6 | 66.4   |
| 2001           | 41.8 | 48.5 | 51.2 | 64.1 | 73.8 | 81.7 | 87.6 | 83.4 | 74.4 | 65.5 | 58.4 | 47.9 | 64.9   |
| 2002           | 47.9 | 45.7 | 54.3 | 67.4 | 72.2 | 79.4 | 79.7 | 83.6 | 75.8 | 60.9 | 51.1 | 46.2 | 63.7   |
| 2003           | 44.4 | 46.2 | 56.1 | 66.9 | 74.6 | 76.5 | 83.1 | 83.2 | 73.3 | 66.7 | 56.3 | 48.8 | 64.7   |
| 2004           | 48.0 | 45.0 | 59.9 | 63.1 | 72.1 | 77.1 | 80.5 | 78.0 | 73.9 | 66.9 | 53.0 | 47.3 | 63.7   |
| 2005           | 49.2 | 50.1 | 55.7 | 64.5 | 71.1 | 80.1 | 82.6 | 80.5 | 79.7 | 65.6 | 57.1 | 45.1 | 65.1   |
| 2006           | 52.3 | 48.6 | 60.2 | 70.1 | 74.9 | 80.4 | 84.5 | 85.6 | 73.2 | 65.9 | 57.0 | 47.4 | 66.7   |
| 2007           | 40.1 | 48.3 | 61.1 | 60.9 | 70.4 | 77.2 | 78.8 | 81.4 | 77.4 | 68.7 | 56.8 | 46.1 | 63.9   |
| 2008           | 44.4 | 52.2 | 57.1 | 64.9 | 74.1 | 82.7 | 83.4 | 80.4 | 73.0 | 64.8 | 55.0 | 46.5 | 64.9   |
| POR=<br>61 YRS | 44.0 | 48.3 | 55.9 | 65.0 | 72.8 | 79.9 | 83.6 | 82.9 | 75.8 | 66.0 | 54.0 | 46.0 | 64.5   |

**HEATING DEGREE DAYS (base 65°F) 2008 ABILENE (KABI)**

| YEAR    | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | TOTAL |
|---------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|
| 1979-80 | 0   | 0   | 0   | 43  | 429 | 530 | 605 | 496 | 316 | 118 | 10  | 0   | 2547  |
| 1980-81 | 0   | 0   | 16  | 116 | 389 | 485 | 619 | 439 | 312 | 51  | 20  | 0   | 2447  |
| 1981-82 | 0   | 0   | 7   | 116 | 237 | 496 | 617 | 570 | 253 | 149 | 22  | 0   | 2467  |
| 1982-83 | 0   | 0   | 0   | 111 | 340 | 589 | 686 | 497 | 325 | 209 | 23  | 4   | 2784  |
| 1983-84 | 0   | 0   | 9   | 37  | 261 | 947 | 781 | 431 | 310 | 107 | 12  | 0   | 2895  |
| 1984-85 | 0   | 0   | 65  | 108 | 375 | 501 | 853 | 572 | 259 | 52  | 3   | 0   | 2788  |
| 1985-86 | 0   | 0   | 28  | 70  | 328 | 725 | 522 | 409 | 162 | 38  | 9   | 0   | 2291  |
| 1986-87 | 0   | 0   | 1   | 102 | 413 | 647 | 663 | 429 | 396 | 159 | 1   | 0   | 2811  |
| 1987-88 | 0   | 0   | 0   | 45  | 347 | 618 | 715 | 567 | 324 | 103 | 10  | 0   | 2729  |
| 1988-89 | 0   | 0   | 3   | 33  | 248 | 539 | 477 | 690 | 310 | 116 | 4   | 0   | 2420  |
| 1989-90 | 0   | 0   | 40  | 92  | 286 | 820 | 460 | 334 | 293 | 123 | 58  | 0   | 2506  |
| 1990-91 | 0   | 0   | 3   | 104 | 258 | 680 | 711 | 358 | 224 | 22  | 12  | 0   | 2372  |
| 1991-92 | 0   | 0   | 33  | 110 | 448 | 562 | 672 | 408 | 200 | 88  | 30  | 0   | 2551  |
| 1992-93 | 0   | 0   | 0   | 20  | 413 | 530 | 677 | 509 | 328 | 125 | 24  | 0   | 2626  |
| 1993-94 | 0   | 0   | 10  | 174 | 459 | 524 | 640 | 502 | 272 | 123 | 30  | 0   | 2734  |
| 1994-95 | 0   | 0   | 14  | 103 | 307 | 521 | 563 | 408 | 387 | 131 | 17  | 0   | 2451  |
| 1995-96 | 0   | 0   | 30  | 64  | 314 | 574 | 673 | 422 | 414 | 138 | 0   | 0   | 2629  |
| 1996-97 | 0   | 0   | 22  | 86  | 360 | 497 | 674 | 499 | 244 | 206 | 36  | 0   | 2624  |
| 1997-98 | 0   | 0   | 0   | 105 | 417 | 677 | 497 | 438 | 389 | 130 | 0   | 0   | 2653  |
| 1998-99 | 0   | 0   | 0   | 47  | 246 | 615 | 524 | 269 | 312 | 98  | 14  | 0   | 2125  |
| 1999-00 | 0   | 0   | 18  | 87  | 171 | 531 | 483 | 269 | 180 | 85  | 8   | 0   | 1832  |
| 2000-01 | 0   | 0   | 23  | 89  | 501 | 783 | 712 | 459 | 421 | 91  | 3   | 0   | 3082  |
| 2001-02 | 0   | 0   | 9   | 66  | 223 | 527 | 529 | 533 | 361 | 88  | 16  | 0   | 2352  |
| 2002-03 | 0   | 0   | 0   | 196 | 414 | 573 | 630 | 526 | 291 | 66  | 16  | 0   | 2712  |
| 2003-04 | 0   | 0   | 0   | 50  | 301 | 495 | 525 | 576 | 196 | 114 | 34  | 0   | 2291  |
| 2004-05 | 0   | 0   | 1   | 36  | 351 | 542 | 489 | 420 | 289 | 90  | 43  | 0   | 2261  |
| 2005-06 | 0   | 0   | 0   | 111 | 275 | 610 | 392 | 463 | 207 | 28  | 9   | 0   | 2095  |
| 2006-07 | 0   | 0   | 4   | 104 | 263 | 542 | 766 | 469 | 157 | 181 | 3   | 0   | 2489  |
| 2007-08 | 0   | 0   | 0   | 65  | 273 | 585 | 632 | 373 | 281 | 98  | 17  | 0   | 2324  |
| 2008-   | 0   | 0   | 1   | 96  | 308 | 570 |     |     |     |     |     |     |       |

WBAN : 13962

**COOLING DEGREE DAYS (base 65°F) 2008 ABILENE (KABI)**

| YEAR | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | TOTAL |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|
| 1979 | 0   | 9   | 20  | 67  | 209 | 428 | 586 | 539 | 390 | 253 | 11  | 0   | 2512  |
| 1980 | 0   | 7   | 6   | 91  | 237 | 588 | 762 | 660 | 405 | 119 | 21  | 5   | 2901  |
| 1981 | 0   | 6   | 8   | 154 | 230 | 464 | 653 | 575 | 403 | 162 | 15  | 1   | 2671  |
| 1982 | 1   | 8   | 52  | 92  | 249 | 422 | 600 | 645 | 386 | 147 | 28  | 1   | 2631  |
| 1983 | 0   | 0   | 21  | 84  | 208 | 365 | 558 | 634 | 403 | 171 | 30  | 0   | 2474  |
| 1984 | 0   | 0   | 20  | 71  | 339 | 550 | 589 | 570 | 315 | 80  | 13  | 4   | 2551  |
| 1985 | 0   | 0   | 32  | 107 | 281 | 393 | 519 | 621 | 356 | 97  | 25  | 0   | 2431  |
| 1986 | 0   | 18  | 34  | 155 | 294 | 435 | 610 | 524 | 382 | 64  | 3   | 0   | 2519  |
| 1987 | 0   | 0   | 3   | 97  | 228 | 379 | 525 | 579 | 277 | 116 | 25  | 0   | 2229  |
| 1988 | 0   | 0   | 34  | 80  | 206 | 422 | 524 | 592 | 350 | 85  | 37  | 0   | 2330  |
| 1989 | 0   | 0   | 64  | 169 | 347 | 334 | 563 | 530 | 275 | 183 | 33  | 0   | 2498  |
| 1990 | 2   | 6   | 33  | 63  | 285 | 603 | 461 | 537 | 363 | 94  | 30  | 0   | 2477  |
| 1991 | 0   | 0   | 40  | 118 | 340 | 404 | 544 | 449 | 228 | 151 | 2   | 1   | 2277  |
| 1992 | 0   | 0   | 13  | 92  | 173 | 402 | 501 | 410 | 336 | 142 | 13  | 6   | 2088  |
| 1993 | 0   | 0   | 19  | 88  | 198 | 448 | 648 | 593 | 289 | 116 | 4   | 0   | 2403  |
| 1994 | 0   | 0   | 48  | 98  | 199 | 552 | 589 | 555 | 259 | 140 | 17  | 0   | 2457  |
| 1995 | 0   | 0   | 32  | 97  | 183 | 346 | 576 | 505 | 314 | 107 | 4   | 7   | 2171  |
| 1996 | 0   | 36  | 23  | 87  | 431 | 461 | 609 | 472 | 80  | 80  | 14  | 4   | 2297  |
| 1997 | 7   | 0   | 24  | 30  | 171 | 358 | 551 | 523 | 420 | 154 | 1   | 0   | 2239  |
| 1998 | 0   | 0   | 40  | 63  | 446 | 567 | 711 | 587 | 490 | 188 | 13  | 1   | 3106  |
| 1999 | 1   | 13  | 4   | 120 | 255 | 421 | 579 | 691 | 358 | 130 | 20  | 0   | 2592  |
| 2000 | 2   | 9   | 40  | 173 | 462 | 406 | 649 | 685 | 434 | 158 | 0   | 0   | 3018  |
| 2001 | 0   | 0   | 0   | 69  | 285 | 507 | 706 | 577 | 298 | 87  | 33  | 2   | 2564  |
| 2002 | 4   | 2   | 37  | 165 | 244 | 438 | 465 | 584 | 328 | 77  | 5   | 0   | 2349  |
| 2003 | 0   | 4   | 21  | 131 | 322 | 352 | 571 | 570 | 254 | 110 | 43  | 0   | 2378  |
| 2004 | 6   | 2   | 44  | 62  | 261 | 367 | 486 | 411 | 275 | 103 | 0   | 0   | 2017  |
| 2005 | 5   | 8   | 9   | 78  | 239 | 460 | 556 | 490 | 450 | 134 | 46  | 0   | 2475  |
| 2006 | 5   | 12  | 66  | 188 | 319 | 468 | 612 | 644 | 257 | 140 | 30  | 0   | 2741  |
| 2007 | 0   | 5   | 43  | 64  | 180 | 373 | 433 | 517 | 383 | 187 | 37  | 7   | 2229  |
| 2008 | 1   | 10  | 43  | 103 | 307 | 537 | 578 | 488 | 247 | 96  | 18  | 4   | 2432  |

**SNOWFALL (inches) 2008 ABILENE (KABI)**

| YEAR           | JUL | AUG | SEP | OCT | NOV | DEC | JAN  | FEB | MAR | APR | MAY | JUN | TOTAL |
|----------------|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-------|
| 1979-80        | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.3 | T    | 2.2 | T   | T   | 0.0 | 0.0 | 2.5   |
| 1980-81        | 0.0 | 0.0 | 0.0 | T   | 3.7 | 0.0 | 1.9  | T   | 0.0 | 0.0 | 0.0 | 0.0 | 5.6   |
| 1981-82        | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 5.0  | 1.2 | 0.0 | 0.0 | 0.0 | 0.0 | 6.2   |
| 1982-83        | 0.0 | 0.0 | 0.0 | 0.0 | T   | 1.4 | 10.8 | T   | T   | 0.0 | 0.0 | 0.0 | 12.2  |
| 1983-84        | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 7.8 | T    | 0.4 | 0.8 | 0.0 | 0.0 | 0.0 | 9.0   |
| 1984-85        | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 6.1  | 1.9 | 0.0 | 0.0 | 0.0 | 0.0 | 8.0   |
| 1985-86        | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 | 0.0  | T   | 0.0 | 0.0 | 0.0 | 0.0 | 0.2   |
| 1986-87        | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.6 | 2.4  | 3.9 | T   | 0.0 | 0.0 | 0.0 | 6.9   |
| 1987-88        | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 3.3 | T    | 2.0 | 0.0 | 0.0 | 0.0 | 0.0 | 5.3   |
| 1988-89        | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | T   | 0.2  | T   | 5.2 | 0.0 | T   | T   | 5.4   |
| 1989-90        | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | T   | T    | T   | T   | T   | 0.0 | 0.0 | T     |
| 1990-91        | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.6 | 1.6  | 0.0 | T   | T   | 0.0 | T   | 4.2   |
| 1991-92        | 0.0 | 0.0 | 0.0 | T   | 0.0 | T   | 0.5  | 0.5 | T   | 0.0 | 0.0 | 0.0 | 1.0   |
| 1992-93        | T   | 0.0 | 0.0 | 0.0 | 2.8 | T   | T    | T   | 0.3 | 0.0 | T   | T   | 3.1   |
| 1993-94        | 0.0 | 0.0 | 0.0 | 0.3 | T   | 1.7 | 2.5  | 0.0 | T   | T   | T   | 0.0 | 4.5   |
| 1994-95        | 0.0 | 0.0 | 0.0 | 0.0 | T   | 0.0 | 6.2  | 0.0 | T   | 0.0 | T   | 0.0 | 6.2   |
| 1995-96        | T   | 0.0 | 0.0 | 0.0 | 1.1 | T   | 4.5  | 0.4 | T   | 9.3 |     |     |       |
| 1996-97        |     |     |     |     | 1.0 | 0.0 | 0.7  | 1.1 | 0.0 | 0.0 | 0.0 | T   |       |
| 1997-98        | 0.0 | T   |     |     |     |     |      |     |     |     |     |     |       |
| 1998-99        |     |     |     |     |     |     |      |     |     |     |     |     |       |
| 1999-00        |     |     |     |     |     |     |      |     |     |     |     |     |       |
| 2000-01        |     |     |     |     |     |     |      |     |     |     |     |     |       |
| 2001-02        |     |     |     |     |     |     |      |     |     |     |     |     |       |
| 2002-03        |     |     |     |     |     |     |      |     |     |     |     |     |       |
| 2003-04        |     |     |     |     |     |     | T    | 3.4 | T   | 0.0 | T   | 0.0 |       |
| 2004-05        | 0.0 | 0.0 | 0.0 | 0.0 | T   | 4.3 | T    | 0.0 | 1.2 | 0.0 | 0.0 | 0.0 | 5.5   |
| 2005-06        | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0 | T   | T   | 0.0 | T     |
| 2006-07        | 0.0 | 0.0 | 0.0 | 0.0 | 0.6 | 0.0 | 0.7  | 0.3 | 0.0 | T   | 0.0 | 0.0 | 1.6   |
| 2007-08        | 0.0 | 0.0 | 0.0 | T   | 6.6 | T   | 0.0  | 0.0 | 1.3 | 0.0 | 0.0 | 0.0 | 7.9   |
| 2008-          | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |      |     |     |     |     |     |       |
| POR=<br>55 YRS | T   | T   | 0.0 | T   | 0.6 | 0.8 | 1.8  | 1.2 | 0.6 | 0.2 | T   | T   | 5.2   |

WBAN : 13962

**REFERENCE NOTES :**

|   |  |
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| <p>PAGE 1:<br/>THE TEMPERATURE GRAPH SHOWS NORMAL MAXIMUM AND NORMAL MINIMUM DAILY TEMPERATURES (SOLID CURVES) AND THE ACTUAL DAILY HIGH AND LOW TEMPERATURES (VERTICAL BARS).</p> <p>PAGE 2 AND 3:<br/>H/C INDICATES HEATING AND COOLING DEGREE DAYS.<br/>RH INDICATES RELATIVE HUMIDITY<br/>W/O INDICATES WEATHER AND OBSTRUCTIONS<br/>S INDICATES SUNSHINE.<br/>PR INDICATES PRESSURE.<br/>CLOUDINESS ON PAGE 3 IS THE SUM OF THE CEILOMETER AND SATELLITE DATA NOT TO EXCEED EIGHT EIGHTHS(OKTAS).</p> <p>GENERAL:<br/>T INDICATES TRACE PRECIPITATION, AN AMOUNT GREATER THAN ZERO BUT LESS THAN THE LOWEST REPORTABLE VALUE.<br/>+ INDICATES THE VALUE ALSO OCCURS ON EARLIER DATES.<br/>BLANK ENTRIES DENOTE MISSING OR UNREPORTED DATA.<br/>NORMALS ARE 30-YEAR AVERAGES (1971 - 2000).<br/>ASOS INDICATES AUTOMATED SURFACE OBSERVING SYSTEM.<br/>PM INDICATES THE LAST DAY OF THE PREVIOUS MONTH.<br/>POR (PERIOD OF RECORD) BEGINS WITH THE JANUARY DATA MONTH AND IS THE NUMBER OF YEARS USED TO COMPUTE THE MEAN. INDIVIDUAL MONTHS WITHIN THE POR MAY BE MISSING.<br/>WHEN THE POR FOR A NORMAL IS LESS THAN 30 YEARS, THE NORMAL IS PROVISIONAL AND IS BASED ON THE NUMBER OF YEARS INDICATED.<br/>0.* OR * INDICATES THE VALUE OR MEAN-DAYS-WITH IS BETWEEN 0.00 AND 0.05.<br/>CLOUDINESS FOR ASOS STATIONS DIFFERS FROM THE NON-ASOS OBSERVATION TAKEN BY A HUMAN OBSERVER. ASOS STATION CLOUDINESS IS BASED ON TIME-AVERAGED CEILOMETER DATA FOR CLOUDS AT OR BELOW 12,000 FEET AND ON SATELLITE DATA FOR CLOUDS ABOVE 12,000 FEET.<br/>THE NUMBER OF DAYS WITH CLEAR, PARTLY CLOUDY, AND CLOUDY CONDITIONS FOR ASOS STATIONS IS THE SUM OF THE CEILOMETER AND SATELLITE DATA FOR THE SUNRISE TO SUNSET PERIOD.</p> | <p>GENERAL CONTINUED:<br/>CLEAR INDICATES 0 - 2 OKTAS, PARTLY CLOUDY INDICATES 3 - 6 OKTAS, AND CLOUDY INDICATES 7 OR 8 OKTAS.<br/>WHEN AT LEAST ONE OF THE ELEMENTS (CEILOMETER OR SATELLITE) IS MISSING, THE DAILY CLOUDINESS IS NOT COMPUTED.<br/>WIND DIRECTION IS RECORDED IN TENS OF DEGREES (2 DIGITS) CLOCKWISE FROM TRUE NORTH. "00" INDICATES CALM. "36" INDICATES TRUE NORTH.<br/>RESULTANT WIND IS THE VECTOR AVERAGE OF THE SPEED AND DIRECTION.<br/>AVERAGE TEMPERATURE IS THE SUM OF THE MEAN DAILY MAXIMUM AND MINIMUM TEMPERATURE DIVIDED BY 2.<br/>SNOWFALL DATA COMPRISE ALL FORMS OF FROZEN PRECIPITATION, INCLUDING HAIL.<br/>A HEATING (COOLING) DEGREE DAY IS THE DIFFERENCE BETWEEN THE AVERAGE DAILY TEMPERATURE AND 65 F.<br/>DRY BULB IS THE TEMPERATURE OF THE AMBIENT AIR.<br/>DEW POINT IS THE TEMPERATURE TO WHICH THE AIR MUST BE COOLED TO ACHIEVE 100 PERCENT RELATIVE HUMIDITY.<br/>WET BULB IS THE TEMPERATURE THE AIR WOULD HAVE IF THE MOISTURE CONTENT WAS INCREASED TO 100 PERCENT RELATIVE HUMIDITY.</p> <p>ON JULY 1, 1996, THE NATIONAL WEATHER SERVICE BEGAN USING THE "METAR" OBSERVATION CODE THAT WAS ALREADY EMPLOYED BY MOST OTHER NATIONS OF THE WORLD. THE MOST NOTICEABLE DIFFERENCE IN THIS ANNUAL PUBLICATION WILL BE THE CHANGE IN UNITS FROM TENTHS TO EIGHTS(OKTAS) FOR REPORTING THE AMOUNT OF SKY COVER.</p> <p><b>NOTE:</b><br/>The "Period of Record:(POR) for all "averages" is based on the "Summary of the Day First Order Station" and "Cooperative Summary of the Day" archives.</p> |
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# 2008 ABILENE TEXAS (KABI)

Abilene is located in north central Texas. The station elevation is 1,750 feet above sea level. Topography of the area includes rolling plains, treeless except for mesquite, broken by low hills to the south and west. The land rises gently to the east and southeast. Regional agricultural products are mainly cattle, dry-land cotton, and feed crops.

Abilene is on the boundary between the humid east Texas climate and the semi-arid west and north Texas climate. The rainfall pattern is typical of the Great Plains. Most precipitation occurs from April to October and is usually associated with thunderstorms. Severe storms are infrequent, occurring mostly in the spring.

The large range of high and low temperatures, characteristic of the Great Plains, extends south to the Abilene area. High daytime temperatures prevail in the summer, but are normally broken by thunderstorms about five times a month. Rapid cooling after sunset results in pleasant nights with low summertime temperatures in the upper 60s and low 70s. High summer temperatures are usually associated with fair skies, southwesterly winds, and low humidities.

Rapid wintertime temperature changes occur when cold, dry, arctic air replaces warm moist tropical air. Drops in temperature of 20 to 30 degrees in one hour are not unusual. However, cold weather periods are short lived. Fair, mild weather is typical.

South is the prevailing wind direction, and southerly winds are frequently high and persist for several days. Strong northerly winds often occur during the passage of cold fronts. Dusty conditions are infrequent, occurring mostly with westerly winds. Dust storm frequency and intensity depend on soil conditions in eastern New Mexico, west Texas, and the Texas Panhandle.

Based on the 1951-1980 period, the average first occurrence of 32 degrees Fahrenheit in the fall is November 13 and the average last occurrence in the spring is March 25.

# Station Location

ABILENE

| LOCATION                                    | Occupied From | Occupied To | Airline Distances and Directions from previous Location | Latitude |         | Longitude     |                         | ELEVATION ABOVE |                      |              |                 |                           |                     |                                 |  | REMARKS |
|---|---------------|-------------|---|----------|---------|---------------|-------------------------|-----------------|----------------------|--------------|-----------------|---------------------------|---------------------|---------------------------------|--|---------|
|   |               |             |   | NORTH    | WEST    | SEA LEVEL     | GROUND                  |                 |                      |              |                 |                           |                     | AUTOMATIC OBSERVING EQUIPMENT * |  |         |
|   |               |             |   |          |         |               | GROUND TEMPERATURE SITE | WIND INSTRUMENT | EXTREME THERMOMETERS | PSYCHROMETER | SUNSHINE SWITCH | TIPPING BUCKET RAIN GAUGE | WEIGHING RAIN GAUGE |                                 | 8 INCH RAIN GAUGE  |         |
| *NOTE:                                      |               |             |   |          |         |               |                         |                 |                      |              |                 |                           |                     |                                 |  |         |
| AIRPORT                                     |               |             |   |          |         |               |                         |                 |                      |              |                 |                           |                     |                                 |  |         |
| Municipal Airport<br>3-1/2 miles SE of P.O. | 7/2/35        | 12/11/53    | NA  | 32° 26'  | 99° 41' | 1751          | 59                      | 4               | 4                    | *<br>Unk     | 2               | 4                         | 3                   |                                 | WBO and WBAS consolidated 4/1/44.<br>* - Installed March 1948?   |         |
| Municipal Airport                           | 12/11/53      | 10/15/71    | 0.5mi.S   | 32° 26'  | 99° 41' | 1759<br>d1762 | 60<br>a32<br>b20        | 5               | 5                    | 10           | 4               | 4                         | 4                   | c4                              | a. Effective 11/11/57.<br>b. Effective 5/5/60.<br>c. Commissioned 900' south of thermometer site 8/1/63.<br>d. Effective 8/1/63. |         |
| FAA Control Tower<br>Municipal Airport      | 10/15/71      | 05/01/96    | 1.25mi.<br>SSE  | 32° 25'  | 99° 41' | 1784          | e21                     | 6               | 6                    | 10<br>f8     | 4               | 4                         | 4                   | e4<br>g5                        | NA<br>e. One mile SSE of previous site.<br>f. Effective 10/27/71.<br>g. New type at same site 5/11/78.                           |         |
| Municipal Airport                           | 05/01/96      | Present     | NA  | 32° 25'  | 99° 41' | h1789         |                         |                 |                      |              |                 |                           |                     | S                               | ASOS commissioned 05/01/96<br>h. Ground elevation  |         |

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