

2002

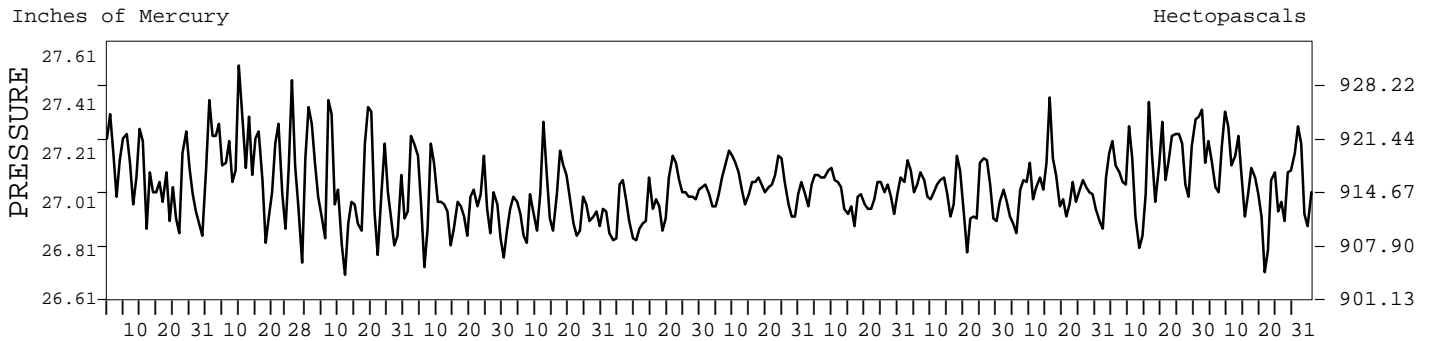
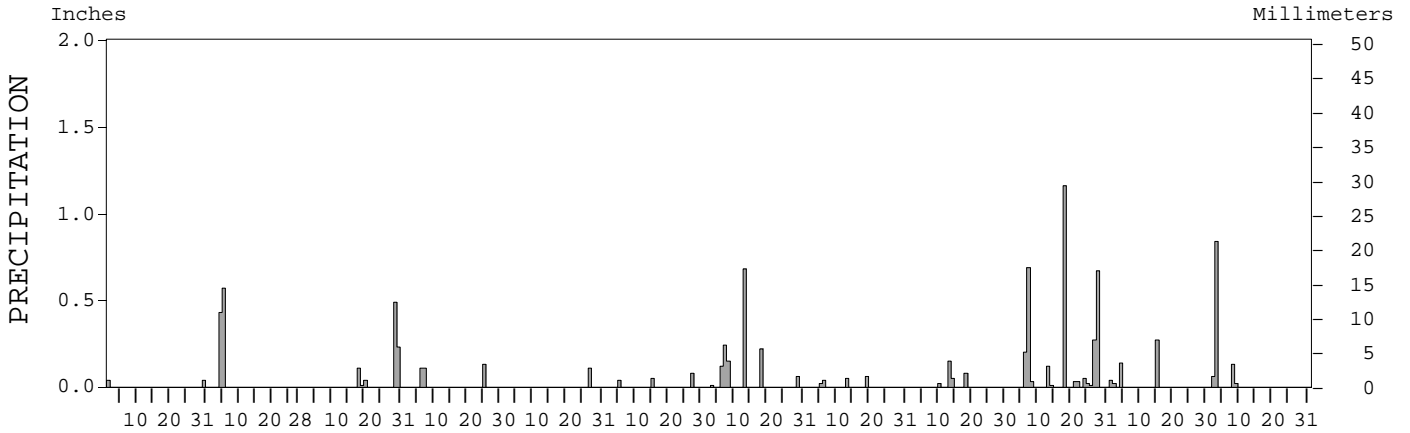
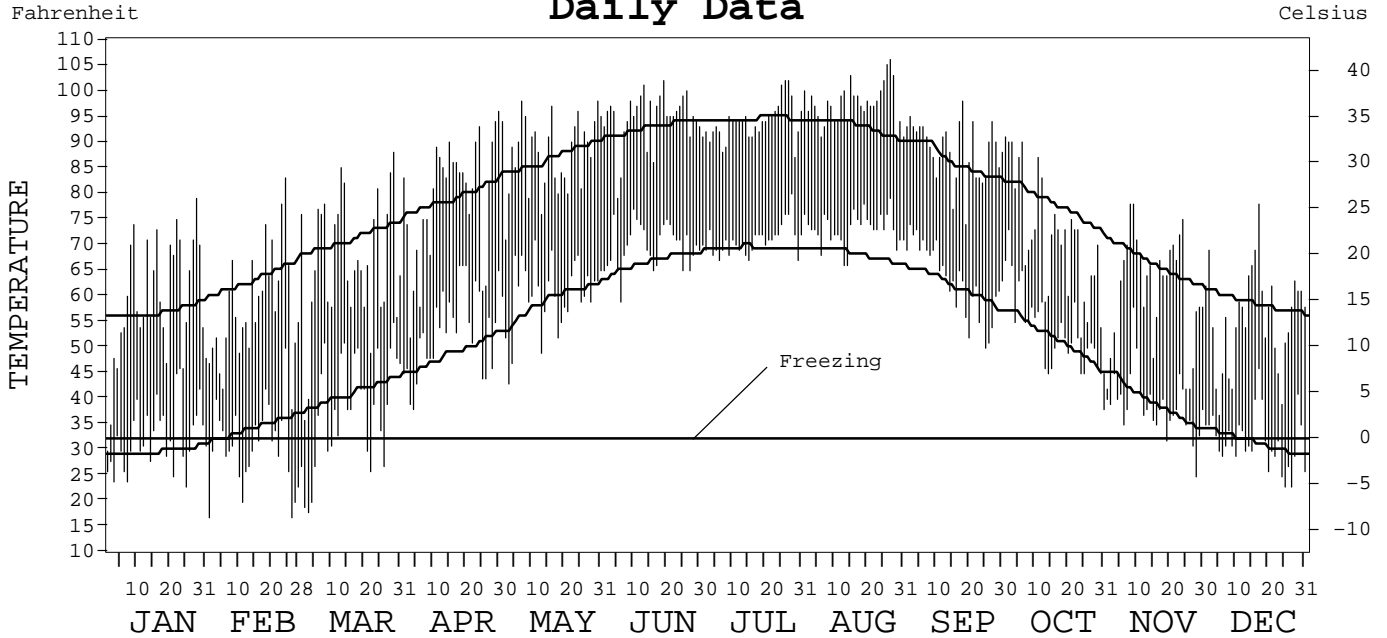
LOCAL CLIMATOLOGICAL DATA ANNUAL SUMMARY WITH COMPARATIVE DATA



ISSN 0198-5124

MIDLAND - ODESSA,
TEXAS (MAF)

Daily Data



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

METEOROLOGICAL DATA FOR 2002

MIDLAND-ODESSA, TX (MAF)

LATITUDE: 31° 55' 56" N LONGITUDE: 102° 12' 29" W ELEVATION (FT): GRND: 2863 BARO: 2866 TIME ZONE: CENTRAL (UTC + 6) WBAN: 23023

| ELEMENT | | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | YEAR | |
|----------------------|-------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|---------|-----|
| TEMPERATURE °F | MEAN DAILY MAXIMUM | 59.2 | 58.0 | 66.9 | 79.2 | 87.9 | 94.7 | 93.9 | 97.5 | 88.4 | 71.1 | 60.9 | 55.6 | 76.1 | |
| | HIGHEST DAILY MAXIMUM | 79 | 83 | 88 | 96 | 98 | 102 | 102 | 106 | 98 | 91 | 78 | 78 | 106 | |
| | DATE OF OCCURRENCE | 28 | 24 | 29 | 30 | 30+ | 19 | 27+ | 27 | 18 | 01 | 09+ | 17 | AUG 27 | |
| | MEAN DAILY MINIMUM | 32.6 | 30.8 | 38.1 | 53.1 | 60.3 | 69.8 | 70.9 | 73.1 | 63.1 | 53.4 | 38.8 | 31.9 | 51.3 | |
| | LOWEST DAILY MINIMUM | 23 | 17 | 18 | 38 | 43 | 59 | 67 | 66 | 50 | 38 | 25 | 23 | 17 | |
| | DATE OF OCCURRENCE | 25 | 26+ | 03 | 04 | 03 | 06 | 30+ | 14+ | 25 | 31 | 28 | 27+ | FEB 26+ | |
| | AVERAGE DRY BULB | 45.9 | 44.4 | 52.5 | 66.2 | 74.1 | 82.3 | 82.4 | 85.3 | 75.8 | 62.3 | 49.9 | 43.8 | 63.7 | |
| | MEAN WET BULB | 37.6 | 35.3 | 41.3 | 55.2 | 60.2 | 68.3 | 69.5 | 69.8 | 63.5 | 56.5 | 42.9 | 38.1 | 53.2 | |
| | MEAN DEW POINT | 26.8 | 20.9 | 26.0 | 45.9 | 49.3 | 60.9 | 63.4 | 62.2 | 55.4 | 53.0 | 35.5 | 31.7 | 44.2 | |
| | NUMBER OF DAYS WITH: | | | | | | | | | | | | | | |
| | MAXIMUM ≥ 90° | 0 | 0 | 0 | 6 | 16 | 26 | 28 | 31 | 15 | 4 | 0 | 0 | 0 | 126 |
| | MAXIMUM ≤ 32° | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| | MINIMUM ≤ 32° | 17 | 17 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 19 | 66 | |
| | MINIMUM ≤ 0° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| H/C | HEATING DEGREE DAYS | 586 | 572 | 394 | 94 | 8 | 0 | 0 | 0 | 160 | 449 | 652 | 2915 | | |
| | COOLING DEGREE DAYS | 0 | 2 | 14 | 135 | 296 | 521 | 546 | 636 | 329 | 84 | 3 | 2566 | | |
| RH | MEAN (PERCENT) | 55 | 45 | 45 | 55 | 47 | 52 | 57 | 50 | 53 | 78 | 63 | 68 | 56 | |
| | HOUR 00 LST | 59 | 54 | 50 | 62 | 52 | 56 | 63 | 53 | 58 | 85 | 70 | 73 | 61 | |
| | HOUR 06 LST | 69 | 59 | 65 | 76 | 69 | 74 | 81 | 71 | 73 | 89 | 78 | 82 | 74 | |
| | HOUR 12 LST | 45 | 35 | 34 | 42 | 36 | 45 | 47 | 42 | 44 | 70 | 50 | 58 | 46 | |
| | HOUR 18 LST | 39 | 31 | 29 | 40 | 32 | 35 | 40 | 33 | 35 | 66 | 51 | 58 | 41 | |
| S | PERCENT POSSIBLE SUNSHINE | | | | | | 80 | 75 | | 82 | 46 | | | | |
| W/O | NUMBER OF DAYS WITH: | | | | | | | | | | | | | | |
| | HEAVY FOG (VISBY ≤ 1/4 MI) | 3 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 7 | 1 | 3 | 15 | | |
| | THUNDERSTORMS | 0 | 0 | 2 | 8 | 4 | 4 | 9 | 5 | 3 | 5 | 0 | 41 | | |
| 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.) | 27.11 | 27.20 | 27.05 | 27.01 | 26.99 | 27.00 | 27.08 | 27.05 | 27.05 | 27.06 | 27.18 | 27.09 | 27.07 | |
| | MEAN SEA-LEVEL PRESS. (IN.) | 30.05 | 30.16 | 29.97 | 29.88 | 29.83 | 29.82 | 29.91 | 29.88 | | 29.95 | 30.12 | 30.04 | | |
| WINDS | RESULTANT SPEED (MPH) | 1.9 | 1.0 | 1.8 | 1.6 | 4.8 | 5.7 | 4.8 | 5.9 | 2.5 | 4.2 | 1.2 | 2.7 | 2.4 | |
| | RES. DIR. (TENS OF DEGS.) | 22 | 24 | 18 | 16 | 14 | 12 | 17 | 14 | 16 | 12 | 28 | 26 | 16 | |
| | MEAN SPEED (MPH) | 9.7 | 10.9 | 12.5 | 12.0 | 14.0 | 12.9 | 11.0 | 11.8 | 9.1 | 9.9 | 9.3 | 8.9 | 11.0 | |
| | PREVAIL. DIR. (TENS OF DEGS.) | 18 | 18 | 18 | 18 | 18 | 16 | 16 | 18 | 15 | 15 | 05 | 19 | 18 | |
| | MAXIMUM 2-MINUTE WIND: | | | | | | | | | | | | | | |
| | SPEED (MPH) | 37 | 43 | 45 | 33 | 44 | 35 | 35 | 33 | 38 | 31 | 37 | 37 | 45 | |
| | DIR. (TENS OF DEGS.) | 26 | 03 | 02 | 17 | 03 | 04 | 16 | 28 | 29 | 04 | 26 | 25 | 02 | |
| | DATE OF OCCURRENCE | 20 | 21 | 01 | 18+ | 29 | 13 | 13 | 27 | 13 | 12 | 09 | 17 | MAR 01 | |
| | MAXIMUM 5-SECOND WIND: | | | | | | | | | | | | | | |
| | SPEED (MPH) | 46 | 52 | 51 | 39 | 52 | 40 | 44 | 41 | 47 | 41 | 44 | 45 | 52 | |
| DIR. (TENS OF DEGS.) | 26 | 03 | 02 | 08 | 03 | 04 | 04 | 27 | 28 | 30 | 26 | 25 | 03 | | |
| DATE OF OCCURRENCE | 20 | 21 | 01 | 24+ | 29 | 13 | 13 | 27+ | 13 | 18 | 09 | 17 | MAY 29 | | |
| PRECIPITATION | WATER EQUIVALENT: | | | | | | | | | | | | | | |
| | TOTAL (IN.) | 0.08 | 1.00 | 0.88 | 0.35 | 0.11 | 0.17 | 1.48 | 0.17 | 0.30 | 3.29 | 0.47 | 1.05 | 9.35 | |
| | GREATEST 24-HOUR (IN.) | 0.04 | 0.60 | 0.72 | 0.22 | 0.11 | 0.08 | 0.68 | 0.06 | 0.15 | 1.16 | 0.27 | 0.90 | 1.16 | |
| | DATE OF OCCURRENCE | 30+ | 04-05 | 29-30 | 06-07 | 27 | 27 | 13 | 19+ | 13 | 18 | 15 | 02-03 | OCT 18 | |
| | NUMBER OF DAYS WITH: | | | | | | | | | | | | | | |
| PRECIPITATION ≥ 0.01 | 2 | 2 | 5 | 3 | 1 | 3 | 7 | 4 | 4 | 13 | 4 | 4 | 52 | | |
| PRECIPITATION ≥ 0.10 | 0 | 2 | 3 | 3 | 1 | 0 | 5 | 0 | 1 | 6 | 2 | 2 | 25 | | |
| PRECIPITATION ≥ 1.00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | | |
| SNOWFALL | SNOW, ICE PELLETS, HAIL: | | | | | | | | | | | | | | |
| | TOTAL (IN.) | 0.8 | T | T | 0.0 | 0.0 | 0.0 | T | 0.0 | 0.0 | 0.0 | 0.0 | T | 0.8 | |
| | GREATEST 24-HOUR (IN.) | 0.8 | T | T | 0.0 | 0.0 | 0.0 | T | 0.0 | 0.0 | 0.0 | 0.0 | T | 0.8 | |
| | DATE OF OCCURRENCE | 01 | 05 | 29 | | | | 13 | | | | | 23 | JAN 01 | |
| | MAXIMUM SNOW DEPTH (IN.) | T | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | T | |
| | DATE OF OCCURRENCE | 01 | | | | | | | | | | | | JAN 01 | |
| | NUMBER OF DAYS WITH: | | | | | | | | | | | | | | |
| | SNOWFALL ≥ 1.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |

NORMALS, MEANS, AND EXTREMES

MIDLAND-ODESSA, TX (MAF)

LATITUDE: 31° 55' 56" N LONGITUDE: 102° 12' 29" W ELEVATION (FT): GRND: 2863 BARO: 2866 TIME ZONE: CENTRAL (UTC + 6) WBAN: 23023

| ELEMENT | | POR | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | YEAR |
|-----------------------|---------------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|----------|
| TEMPERATURE °F | NORMAL DAILY MAXIMUM | 30 | 56.8 | 63.0 | 70.9 | 78.8 | 86.8 | 92.7 | 94.3 | 92.8 | 86.1 | 77.4 | 65.8 | 58.4 | 77.0 |
| | MEAN DAILY MAXIMUM | 54 | 57.0 | 62.3 | 69.8 | 78.8 | 86.6 | 93.0 | 94.5 | 93.3 | 86.5 | 77.7 | 65.9 | 58.8 | 77.0 |
| | HIGHEST DAILY MAXIMUM | 55 | 84 | 90 | 95 | 101 | 108 | 116 | 112 | 107 | 107 | 101 | 90 | 85 | 116 |
| | YEAR OF OCCURRENCE | | 1974 | 1986 | 1989 | 1996 | 2000 | 1994 | 1989 | 1964 | 1953 | 2000 | 1996 | 1954 | JUN 1994 |
| | MEAN OF EXTREME MAXS. | 54 | 76.0 | 80.5 | 86.7 | 93.1 | 99.4 | 102.8 | 101.8 | 101.2 | 97.6 | 91.2 | 81.9 | 76.2 | 90.7 |
| | NORMAL DAILY MINIMUM | 30 | 29.6 | 34.1 | 40.8 | 48.6 | 58.8 | 66.4 | 69.1 | 67.9 | 61.6 | 51.3 | 38.8 | 31.2 | 49.9 |
| | MEAN DAILY MINIMUM | 54 | 29.9 | 33.9 | 40.5 | 49.5 | 59.1 | 67.0 | 69.4 | 68.3 | 61.9 | 51.5 | 39.1 | 31.8 | 50.2 |
| | LOWEST DAILY MINIMUM | 55 | -8 | -11 | 9 | 20 | 34 | 47 | 53 | 54 | 36 | 24 | 11 | -1 | -11 |
| | YEAR OF OCCURRENCE | | 1962 | 1985 | 1980 | 1973 | 1970 | 1983 | 1978 | 1989 | 1989 | 1993 | 2001 | 1989 | FEB 1985 |
| | MEAN OF EXTREME MINS. | 54 | 13.8 | 18.0 | 22.9 | 33.6 | 45.0 | 57.0 | 63.1 | 62.5 | 48.6 | 37.0 | 24.0 | 17.4 | 36.9 |
| | NORMAL DRY BULB | 30 | 42.5 | 47.1 | 55.7 | 64.6 | 72.8 | 79.6 | 82.0 | 80.8 | 73.3 | 64.0 | 52.6 | 44.6 | 63.3 |
| | MEAN DRY BULB | 54 | 43.5 | 48.0 | 55.1 | 64.2 | 72.8 | 80.0 | 82.0 | 80.8 | 74.3 | 64.7 | 52.6 | 45.2 | 63.6 |
| | MEAN WET BULB | 19 | 36.0 | 39.9 | 44.4 | 48.7 | 60.0 | 66.7 | 67.7 | 67.5 | 62.9 | 54.7 | 44.0 | 37.0 | 52.5 |
| | MEAN DEW POINT | 19 | 26.2 | 29.0 | 32.1 | 37.5 | 49.5 | 58.9 | 59.7 | 60.4 | 56.3 | 46.9 | 35.1 | 27.8 | 43.3 |
| NORMAL NO. DAYS WITH: | | | | | | | | | | | | | | | |
| MAXIMUM ≥ 90° | 30 | 0.0 | * | 0.5 | 3.7 | 11.7 | 20.9 | 25.7 | 23.1 | 10.8 | 2.2 | 0.0 | 0.0 | 98.6 | |
| MAXIMUM ≤ 32° | 30 | 1.6 | 0.4 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 1.0 | 3.2 | |
| MINIMUM ≤ 32° | 30 | 20.4 | 13.4 | 5.7 | 0.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 6.3 | 17.7 | 64.3 | |
| MINIMUM ≤ 0° | 30 | 0.1 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | * | 0.2 | |
| H/C | NORMAL HEATING DEG. DAYS | 30 | 680 | 472 | 302 | 120 | 18 | 0 | 0 | 0 | 19 | 103 | 380 | 622 | 2716 |
| | NORMAL COOLING DEG. DAYS | 30 | 0 | 2 | 15 | 77 | 254 | 438 | 512 | 473 | 281 | 83 | 4 | 0 | 2139 |
| RH | NORMAL (PERCENT) | 30 | 57 | 55 | 46 | 45 | 51 | 53 | 51 | 54 | 61 | 60 | 59 | 58 | 54 |
| | HOUR 00 LST | 30 | 63 | 62 | 54 | 52 | 60 | 61 | 57 | 60 | 69 | 70 | 68 | 65 | 62 |
| | HOUR 06 LST | 30 | 71 | 72 | 66 | 66 | 75 | 77 | 73 | 75 | 80 | 79 | 76 | 72 | 74 |
| | HOUR 12 LST | 30 | 46 | 44 | 36 | 34 | 38 | 42 | 42 | 43 | 50 | 46 | 45 | 45 | 43 |
| | HOUR 18 LST | 30 | 41 | 36 | 28 | 27 | 31 | 33 | 34 | 36 | 44 | 43 | 44 | 44 | 37 |
| S | PERCENT POSSIBLE SUNSHINE | 20 | 66 | 69 | 72 | 78 | 78 | 81 | 81 | 77 | 77 | 72 | 74 | 65 | 74 |
| W/O | MEAN NO. DAYS WITH: | | | | | | | | | | | | | | |
| | HEAVY FOG(VISBY≤1/4 MI) | 54 | 3.4 | 2.7 | 0.9 | 0.6 | 0.5 | 0.1 | 0.0 | 0.1 | 0.6 | 1.4 | 2.5 | 2.8 | 15.6 |
| | THUNDERSTORMS | 54 | 0.3 | 0.6 | 1.3 | 3.1 | 6.6 | 5.7 | 5.7 | 6.0 | 3.5 | 2.6 | 0.6 | 0.4 | 36.4 |
| CLOUDINESS | MEAN: | | | | | | | | | | | | | | |
| | SUNRISE-SUNSET (OKTAS) | 48 | 4.2 | 4.1 | 3.8 | 3.7 | 3.8 | 3.2 | 3.5 | 3.4 | 3.4 | 3.0 | 3.4 | 3.8 | 3.6 |
| | MIDNIGHT-MIDNIGHT (OKTAS) | 32 | 3.9 | 3.8 | 3.3 | 3.3 | 3.4 | 3.0 | 3.1 | 3.2 | 3.3 | 2.8 | 3.2 | 3.4 | 3.3 |
| | MEAN NO. DAYS WITH: | | | | | | | | | | | | | | |
| CLEAR | 48 | 12.4 | 11.1 | 13.1 | 13.3 | 12.9 | 15.0 | 13.1 | 14.2 | 14.2 | 16.9 | 14.6 | 13.8 | 164.6 | |
| PARTLY CLOUDY | 48 | 6.4 | 7.0 | 7.7 | 8.0 | 9.6 | 9.5 | 11.1 | 10.4 | 7.9 | 6.3 | 6.5 | 6.0 | 96.4 | |
| CLOUDY | 48 | 12.2 | 10.1 | 10.2 | 8.7 | 8.5 | 5.5 | 6.8 | 6.3 | 8.0 | 7.7 | 8.9 | 11.2 | 104.1 | |
| PR | MEAN STATION PRESSURE(IN) | 30 | 27.12 | 27.08 | 27.00 | 26.99 | 26.97 | 27.01 | 27.07 | 27.08 | 27.09 | 27.10 | 27.10 | 27.12 | 27.06 |
| | MEAN SEA-LEVEL PRES. (IN) | 19 | 30.08 | 30.03 | 29.94 | 29.87 | 29.82 | 29.97 | 29.90 | 29.92 | 29.94 | 29.98 | 30.03 | 30.10 | 29.97 |
| WINDS | MEAN SPEED (MPH) | 46 | 10.4 | 11.2 | 12.4 | 12.6 | 12.4 | 12.2 | 10.7 | 9.9 | 9.9 | 9.9 | 10.3 | 10.1 | 11.0 |
| | PREVAIL.DIR(TENS OF DEGS) | 31 | 18 | 18 | 18 | 18 | 18 | 16 | 16 | 16 | 16 | 16 | 18 | 18 | 18 |
| | MAXIMUM 2-MINUTE: | | | | | | | | | | | | | | |
| | SPEED (MPH) | 6 | 41 | 43 | 45 | 40 | 44 | 43 | 45 | 53 | 51 | 38 | 37 | 39 | 53 |
| | DIR. (TENS OF DEGS) | | 26 | 03 | 02 | 21 | 03 | 26 | 14 | 23 | 19 | 17 | 26 | 26 | 23 |
| | YEAR OF OCCURRENCE | | 2001 | 2002 | 2002 | 2001 | 2002 | 1997 | 1998 | 1997 | 2001 | 2000 | 2002 | 1999 | AUG 1997 |
| MAXIMUM 5-SECOND: | | | | | | | | | | | | | | | |
| SPEED (MPH) | 6 | 51 | 52 | 54 | 59 | 55 | 49 | 59 | 64 | 70 | 46 | 45 | 49 | 70 | |
| DIR. (TENS OF DEGS) | | 29 | 03 | 27 | 21 | 25 | 25 | 19 | 23 | 20 | 35 | 25 | 26 | 20 | |
| YEAR OF OCCURRENCE | | 1999 | 2002 | 2000 | 2001 | 1999 | 1997 | 1998 | 1997 | 2001 | 2001 | 2001 | 1997 | SEP 2001 | |
| PRECIPITATION | NORMAL (IN) | 30 | 0.53 | 0.58 | 0.42 | 0.73 | 1.79 | 1.71 | 1.89 | 1.77 | 2.31 | 1.77 | 0.65 | 0.65 | 14.80 |
| | MAXIMUM MONTHLY (IN) | 55 | 3.66 | 2.55 | 2.86 | 2.85 | 7.63 | 3.93 | 8.50 | 4.43 | 9.70 | 7.45 | 2.32 | 3.30 | 9.70 |
| | YEAR OF OCCURRENCE | | 1949 | 1992 | 1970 | 1949 | 1992 | 1949 | 1991 | 1974 | 1980 | 1986 | 1968 | 1986 | SEP 1980 |
| | MINIMUM MONTHLY (IN) | 55 | 0.00 | 0.00 | T | 0.00 | 0.02 | 0.01 | T | 0.05 | 0.00 | 0.00 | 0.00 | T | 0.00 |
| | YEAR OF OCCURRENCE | | 1967 | 1999 | 1994 | 1964 | 1998 | 1990 | 1983 | 1999 | 2000 | 1952 | 1950 | 1958 | SEP 2000 |
| | MAXIMUM IN 24 HOURS (IN) | 49 | 1.15 | 1.32 | 2.20 | 1.62 | 4.75 | 3.07 | 5.99 | 2.41 | 4.37 | 3.59 | 2.16 | 0.90 | 5.99 |
| | YEAR OF OCCURRENCE | | 1958 | 1997 | 1970 | 1979 | 1968 | 1993 | 1961 | 1965 | 1986 | 1985 | 1975 | 2002 | JUL 1961 |
| | NORMAL NO. DAYS WITH: | | | | | | | | | | | | | | |
| PRECIPITATION ≥ 0.01 | 30 | 3.4 | 3.7 | 2.8 | 3.1 | 5.8 | 5.2 | 4.8 | 6.1 | 6.4 | 4.4 | 3.3 | 3.7 | 52.7 | |
| PRECIPITATION ≥ 1.00 | 30 | 0.0 | 0.1 | 0.1 | 0.2 | 0.5 | 0.4 | 0.4 | 0.3 | 0.7 | 0.5 | 0.3 | 0.1 | 3.6 | |
| SNOWFALL | NORMAL (IN) | 30 | 2.2 | 0.7 | 0.2 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.* | 0.5 | 1.4 | 5.1 |
| | MAXIMUM MONTHLY (IN) | 55 | 9.0 | 3.9 | 5.9 | 2.0 | T | T | T | T | T | 0.6 | 8.0 | 9.8 | 9.8 |
| | YEAR OF OCCURRENCE | | 1985 | 1973 | 1970 | 1996 | 1995 | 1993 | 1995 | 1992 | 2001 | 1993 | 2001 | 1998 | DEC 1998 |
| | MAXIMUM IN 24 HOURS (IN) | 49 | 6.8 | 3.9 | 5.0 | 2.0 | T | T | T | T | T | 0.6 | 6.0 | 9.8 | 9.8 |
| | YEAR OF OCCURRENCE | | 1974 | 1985 | 1970 | 1996 | 1995 | 1993 | 1995 | 1992 | 2001 | 1993 | 2001 | 1998 | DEC 1998 |
| | MAXIMUM SNOW DEPTH (IN) | 53 | 7 | 5 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 8 | 5 | 8 |
| | YEAR OF OCCURRENCE | | 1974 | 1985 | 1989 | | | | | | | 1993 | 2001 | 1998 | NOV 2001 |
| NORMAL NO. DAYS WITH: | | | | | | | | | | | | | | | |
| SNOWFALL ≥ 1.0 | 30 | 0.8 | 0.3 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 | 0.5 | 1.9 | |

PRECIPITATION (inches) 2002 MIDLAND - ODESSA, TX (MAF)

| YEAR | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | ANNUAL |
|----------------|------|------|------|------|------|------|------|------|------|------|------|------|--------|
| 1973 | 0.93 | 1.63 | 1.73 | 1.38 | 0.87 | 0.34 | 2.47 | 0.25 | 1.09 | 0.59 | T | 0.00 | 11.28 |
| 1974 | 0.54 | 0.28 | 0.18 | 1.17 | 0.34 | 0.75 | 0.26 | 4.43 | 6.16 | 5.42 | 0.72 | 0.25 | 20.50 |
| 1975 | 0.81 | 0.69 | 0.08 | 0.09 | 3.44 | 2.05 | 7.73 | 1.68 | 3.44 | 0.70 | 2.16 | 0.37 | 23.24 |
| 1976 | 0.03 | 0.18 | 0.30 | 2.02 | 1.08 | 2.14 | 3.56 | 0.84 | 1.25 | 1.84 | 0.26 | 0.08 | 13.58 |
| 1977 | 0.63 | 0.55 | 0.61 | 1.22 | 0.60 | 0.81 | 0.40 | 0.37 | 0.09 | 1.27 | 0.02 | 0.27 | 6.84 |
| 1978 | 0.22 | 0.34 | T | 0.09 | 1.97 | 1.15 | 2.51 | 1.01 | 5.02 | 2.51 | 2.27 | 0.20 | 17.29 |
| 1979 | 0.16 | 0.26 | 0.81 | 1.63 | 1.14 | 2.98 | 3.05 | 2.17 | 0.08 | 0.97 | T | 2.80 | 16.05 |
| 1980 | 0.49 | 0.29 | T | 0.86 | 1.85 | 1.59 | T | 0.93 | 9.70 | 0.12 | 0.78 | 1.15 | 17.76 |
| 1981 | 0.56 | 0.67 | 0.56 | 2.15 | 2.21 | 0.46 | 0.40 | 3.33 | 1.68 | 5.53 | T | 0.05 | 17.60 |
| 1982 | 0.42 | 0.16 | 0.01 | 1.08 | 3.16 | 1.45 | 3.24 | 0.67 | 1.43 | 1.01 | 0.62 | 1.40 | 14.65 |
| 1983 | 1.14 | 0.26 | 0.21 | 0.06 | 0.50 | 0.19 | T | 0.43 | 0.62 | 4.64 | 1.62 | 0.33 | 10.00 |
| 1984 | 0.41 | 0.17 | T | 0.01 | 3.40 | 2.15 | 0.84 | 2.45 | 1.89 | 1.99 | 2.31 | 0.83 | 16.45 |
| 1985 | 0.84 | 0.59 | 0.63 | 0.21 | 0.99 | 2.23 | 0.90 | 0.81 | 3.15 | 5.93 | 0.08 | 0.05 | 16.41 |
| 1986 | 0.23 | 0.17 | 0.03 | 0.01 | 3.89 | 3.42 | 1.26 | 3.94 | 6.98 | 7.45 | 1.45 | 3.30 | 32.13 |
| 1987 | 0.10 | 1.93 | 1.23 | 0.63 | 4.13 | 2.98 | 0.33 | 0.51 | 1.37 | 0.44 | 0.02 | 0.38 | 14.05 |
| 1988 | 0.01 | 0.44 | 0.74 | 0.08 | 2.26 | 0.84 | 6.66 | 1.66 | 5.07 | T | T | 0.53 | 18.29 |
| 1989 | 0.25 | 1.28 | 0.34 | 0.05 | 0.95 | 0.61 | 0.34 | 1.19 | 2.78 | 0.17 | 0.04 | 0.14 | 8.14 |
| 1990 | 0.21 | 1.09 | 0.94 | 1.97 | 0.35 | 0.01 | 1.65 | 2.15 | 2.89 | 1.46 | 0.75 | 0.69 | 14.16 |
| 1991 | 1.80 | 0.25 | T | 0.01 | 0.54 | 3.50 | 8.50 | 1.58 | 3.76 | 0.58 | 0.71 | 2.23 | 23.46 |
| 1992 | 1.20 | 2.55 | 0.97 | 1.03 | 7.63 | 2.12 | 1.63 | 2.75 | 0.16 | 0.03 | 0.70 | 0.61 | 21.38 |
| 1993 | 1.28 | 0.82 | 0.26 | 0.57 | 1.45 | 3.11 | 0.89 | 4.37 | 2.11 | 1.11 | 0.06 | 0.34 | 16.37 |
| 1994 | 1.02 | 0.08 | T | 0.52 | 1.30 | 1.00 | 2.43 | 1.75 | 0.45 | 0.38 | 1.30 | 0.46 | 10.69 |
| 1995 | 0.72 | 0.46 | 0.19 | 0.40 | 2.51 | 1.45 | 2.28 | 0.34 | 1.77 | 0.34 | T | 0.24 | 10.70 |
| 1996 | 0.08 | T | 0.05 | 1.22 | 0.11 | 1.71 | 0.13 | 2.94 | 0.97 | 0.20 | 1.43 | T | 8.84 |
| 1997 | 0.21 | 1.69 | 0.26 | 2.02 | 0.73 | 3.27 | 2.26 | 2.41 | 0.86 | 1.60 | 0.44 | 1.35 | 17.10 |
| 1998 | 0.24 | 0.50 | 0.42 | 0.00 | 0.02 | 0.30 | 0.65 | 0.92 | 0.08 | 1.30 | 0.13 | 0.58 | 5.14 |
| 1999 | 0.33 | 0.00 | 1.22 | 0.19 | 1.10 | 2.87 | 0.61 | 0.05 | 0.95 | 0.28 | 0.00 | T | 7.60 |
| 2000 | 0.61 | T | 0.76 | 0.19 | 1.05 | 3.14 | 0.24 | 0.06 | 0.00 | 2.39 | 0.88 | 0.33 | 9.65 |
| 2001 | 0.69 | 1.24 | 0.78 | T | 1.14 | 0.01 | T | 3.44 | 0.95 | 0.03 | 1.47 | 0.10 | 9.85 |
| 2002 | 0.08 | 1.00 | 0.88 | 0.35 | 0.11 | 0.17 | 1.48 | 0.17 | 0.30 | 3.29 | 0.47 | 1.05 | 9.35 |
| POR= 72 YRS | 0.63 | 0.65 | 0.49 | 0.80 | 1.95 | 1.66 | 1.71 | 1.59 | 1.96 | 1.59 | 0.52 | 0.60 | 14.15 |

WBAN : 23023

AVERAGE TEMPERATURE (°F) 2002 MIDLAND - ODESSA, TX (MAF)

| YEAR | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | ANNUAL |
|----------------|------|------|------|------|------|------|------|------|------|------|------|------|--------|
| 1973 | 38.9 | 43.8 | 54.4 | 57.1 | 68.8 | 77.0 | 78.1 | 78.9 | 72.0 | 65.0 | 56.6 | 46.7 | 61.4 |
| 1974 | 45.2 | 49.5 | 62.7 | 66.1 | 77.5 | 81.1 | 83.4 | 79.5 | 67.8 | 64.3 | 53.6 | 45.6 | 64.7 |
| 1975 | 45.9 | 48.0 | 54.9 | 63.0 | 71.8 | 80.3 | 77.8 | 79.0 | 70.6 | 64.9 | 53.5 | 46.7 | 63.0 |
| 1976 | 43.9 | 56.2 | 57.0 | 64.6 | 68.5 | 78.1 | 75.8 | 78.8 | 71.7 | 58.4 | 46.6 | 44.3 | 62.0 |
| 1977 | 40.5 | 50.2 | 54.8 | 61.6 | 76.4 | 82.1 | 83.6 | 85.4 | 82.1 | 67.0 | 55.0 | 49.4 | 65.7 |
| 1978 | 38.2 | 43.8 | 58.1 | 67.8 | 72.1 | 78.1 | 81.9 | 78.9 | 71.4 | 61.3 | 52.3 | 42.6 | 62.2 |
| 1979 | 35.9 | 45.3 | 55.4 | 62.6 | 70.7 | 77.4 | 82.1 | 79.0 | 75.1 | 68.1 | 49.5 | 46.4 | 62.3 |
| 1980 | 44.9 | 46.3 | 52.4 | 59.1 | 69.1 | 81.9 | 84.1 | 80.8 | 72.7 | 60.2 | 47.2 | 46.2 | 62.1 |
| 1981 | 43.2 | 48.6 | 52.4 | 63.9 | 70.2 | 79.1 | 83.6 | 80.2 | 75.7 | 65.6 | 57.0 | 47.8 | 63.9 |
| 1982 | 43.6 | 45.9 | 57.5 | 63.8 | 70.7 | 79.1 | 82.3 | 82.8 | 77.4 | 64.2 | 52.2 | 43.4 | 63.6 |
| 1983 | 41.8 | 48.0 | 55.9 | 59.5 | 71.5 | 79.3 | 83.7 | 84.1 | 77.8 | 67.8 | 55.0 | 37.5 | 63.5 |
| 1984 | 40.1 | 48.2 | 55.0 | 63.6 | 74.1 | 79.8 | 80.9 | 80.2 | 71.5 | 61.7 | 50.7 | 48.0 | 62.8 |
| 1985 | 37.5 | 44.3 | 56.7 | 66.9 | 74.8 | 77.3 | 81.2 | 84.1 | 74.2 | 63.7 | 54.6 | 41.1 | 63.0 |
| 1986 | 46.3 | 51.3 | 58.9 | 68.4 | 72.8 | 77.2 | 80.8 | 79.6 | 74.2 | 61.7 | 50.7 | 43.7 | 63.8 |
| 1987 | 42.6 | 47.5 | 49.5 | 59.2 | 69.2 | 75.7 | 80.5 | 81.3 | 73.1 | 66.3 | 50.8 | 44.2 | 61.7 |
| 1988 | 39.3 | 46.2 | 54.3 | 63.1 | 70.8 | 78.5 | 77.7 | 79.3 | 72.5 | 64.7 | 54.9 | 43.7 | 62.1 |
| 1989 | 45.9 | 43.3 | 56.9 | 66.8 | 76.9 | 78.7 | 83.1 | 80.5 | 71.7 | 65.2 | 53.6 | 38.7 | 63.4 |
| 1990 | 46.4 | 50.5 | 54.9 | 64.7 | 73.0 | 86.5 | 79.0 | 78.6 | 75.0 | 63.8 | 55.6 | 43.4 | 64.3 |
| 1991 | 41.7 | 50.6 | 56.9 | 65.9 | 76.6 | 79.5 | 79.2 | 77.6 | 69.9 | 64.6 | 47.7 | 45.8 | 63.0 |
| 1992 | 41.3 | 50.9 | 57.3 | 63.2 | 68.0 | 77.0 | 79.9 | 76.9 | 74.8 | 66.4 | 49.2 | 46.5 | 62.6 |
| 1993 | 43.4 | 47.1 | 54.6 | 63.3 | 71.2 | 78.9 | 83.5 | 81.1 | 71.9 | 61.9 | 49.5 | 46.9 | 62.8 |
| 1994 | 44.1 | 48.0 | 57.2 | 63.3 | 72.0 | 84.5 | 83.3 | 81.8 | 73.6 | 66.0 | 55.5 | 48.7 | 64.8 |
| 1995 | 45.9 | 51.8 | 54.5 | 64.0 | 71.8 | 78.1 | 83.0 | 81.8 | 73.9 | 66.6 | 54.8 | 46.4 | 64.4 |
| 1996 | 44.6 | 51.3 | 51.2 | 63.4 | 81.1 | 82.9 | 84.5 | 80.0 | 72.3 | 64.1 | 52.9 | 47.4 | 64.6 |
| 1997 | 41.4 | 44.8 | 57.9 | 59.1 | 70.8 | 77.9 | 82.8 | 81.9 | 77.0 | 65.0 | 50.2 | 42.0 | 62.6 |
| 1998 | 48.1 | 49.3 | 53.8 | 62.2 | 79.0 | 85.7 | 86.9 | 81.5 | 79.6 | 69.0 | 56.4 | 44.0 | 66.3 |
| 1999 | 48.0 | 54.8 | 55.9 | 65.0 | 73.8 | 79.3 | 82.6 | 84.3 | 75.0 | 63.9 | 56.5 | 45.1 | 65.4 |
| 2000 | 47.4 | 55.3 | 59.1 | 67.4 | 78.8 | 78.7 | 85.4 | 83.2 | 77.8 | 64.2 | 47.0 | 40.4 | 65.4 |
| 2001 | 41.5 | 48.5 | 51.9 | 66.9 | 75.9 | 83.8 | 86.7 | 82.0 | 75.1 | 65.9 | 54.3 | 44.7 | 64.8 |
| 2002 | 45.9 | 44.4 | 52.5 | 66.2 | 74.1 | 82.3 | 82.4 | 85.3 | 75.8 | 62.3 | 49.9 | 43.8 | 63.7 |
| POR= 72 YRS | 43.6 | 48.1 | 55.1 | 63.9 | 72.5 | 79.8 | 81.7 | 80.9 | 74.4 | 64.9 | 52.5 | 45.2 | 63.6 |

HEATING DEGREE DAYS (base 65°F) 2002 MIDLAND - ODESSA, TX (MAF)

| YEAR | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | TOTAL |
|---------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|
| 1973-74 | 0 | 0 | 15 | 81 | 252 | 561 | 607 | 429 | 121 | 68 | 1 | 0 | 2135 |
| 1974-75 | 0 | 0 | 44 | 65 | 344 | 594 | 582 | 468 | 314 | 135 | 2 | 3 | 2551 |
| 1975-76 | 0 | 0 | 40 | 82 | 340 | 560 | 652 | 258 | 261 | 73 | 38 | 0 | 2304 |
| 1976-77 | 0 | 0 | 10 | 220 | 545 | 635 | 755 | 409 | 320 | 117 | 0 | 0 | 3011 |
| 1977-78 | 0 | 0 | 0 | 47 | 295 | 478 | 823 | 586 | 245 | 49 | 30 | 0 | 2553 |
| 1978-79 | 0 | 0 | 36 | 138 | 374 | 689 | 893 | 546 | 297 | 106 | 34 | 3 | 3116 |
| 1979-80 | 0 | 0 | 3 | 63 | 459 | 566 | 619 | 535 | 384 | 184 | 34 | 0 | 2847 |
| 1980-81 | 0 | 0 | 20 | 173 | 531 | 575 | 669 | 452 | 383 | 99 | 20 | 0 | 2922 |
| 1981-82 | 0 | 0 | 0 | 109 | 234 | 527 | 655 | 535 | 245 | 112 | 21 | 0 | 2438 |
| 1982-83 | 0 | 0 | 0 | 128 | 378 | 661 | 711 | 469 | 281 | 224 | 19 | 3 | 2874 |
| 1983-84 | 0 | 0 | 9 | 56 | 304 | 844 | 768 | 481 | 313 | 100 | 7 | 0 | 2882 |
| 1984-85 | 0 | 0 | 66 | 135 | 426 | 521 | 843 | 573 | 277 | 53 | 2 | 1 | 2897 |
| 1985-86 | 0 | 0 | 30 | 87 | 308 | 734 | 575 | 390 | 192 | 39 | 11 | 0 | 2366 |
| 1986-87 | 0 | 0 | 2 | 137 | 423 | 653 | 689 | 484 | 473 | 205 | 14 | 0 | 3080 |
| 1987-88 | 0 | 0 | 2 | 38 | 427 | 636 | 788 | 540 | 338 | 100 | 11 | 0 | 2880 |
| 1988-89 | 0 | 0 | 10 | 54 | 321 | 654 | 586 | 601 | 279 | 102 | 2 | 0 | 2609 |
| 1989-90 | 0 | 0 | 36 | 98 | 341 | 806 | 569 | 401 | 324 | 105 | 58 | 0 | 2738 |
| 1990-91 | 0 | 0 | 2 | 101 | 295 | 662 | 715 | 398 | 260 | 47 | 8 | 0 | 2488 |
| 1991-92 | 0 | 0 | 47 | 107 | 513 | 587 | 728 | 404 | 235 | 113 | 29 | 0 | 2763 |
| 1992-93 | 0 | 0 | 1 | 32 | 475 | 564 | 665 | 494 | 322 | 118 | 16 | 0 | 2687 |
| 1993-94 | 0 | 3 | 10 | 185 | 457 | 556 | 639 | 468 | 265 | 117 | 18 | 0 | 2718 |
| 1994-95 | 0 | 0 | 3 | 80 | 284 | 500 | 586 | 363 | 343 | 119 | 8 | 0 | 2286 |
| 1995-96 | 0 | 0 | 29 | 45 | 301 | 573 | 626 | 410 | 423 | 139 | 0 | 0 | 2546 |
| 1996-97 | 0 | 0 | 25 | 101 | 358 | 538 | 726 | 560 | 232 | 206 | 22 | 0 | 2768 |
| 1997-98 | 0 | 0 | 3 | 119 | 437 | 704 | 518 | 434 | 367 | 129 | 0 | 0 | 2711 |
| 1998-99 | 0 | 0 | 0 | 48 | 259 | 644 | 522 | 282 | 285 | 104 | 9 | 0 | 2153 |
| 1999-00 | 0 | 0 | 16 | 106 | 250 | 610 | 542 | 274 | 195 | 83 | 13 | 0 | 2089 |
| 2000-01 | 0 | 0 | 12 | 127 | 535 | 755 | 720 | 455 | 399 | 56 | 0 | 0 | 3059 |
| 2001-02 | 0 | 0 | 5 | 51 | 329 | 619 | 586 | 572 | 394 | 94 | 8 | 0 | 2658 |
| 2002- | 0 | 0 | 0 | 160 | 449 | 652 | | | | | | | |

WBAN : 23023

COOLING DEGREE DAYS (base 65°F) 2002 MIDLAND - ODESSA, TX (MAF)

| YEAR | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | ANNUAL |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------|
| 1973 | 0 | 0 | 0 | 18 | 178 | 368 | 414 | 437 | 229 | 88 | 5 | 0 | 1737 |
| 1974 | 0 | 0 | 58 | 109 | 394 | 488 | 575 | 455 | 136 | 50 | 5 | 0 | 2270 |
| 1975 | 0 | 0 | 10 | 80 | 220 | 466 | 404 | 439 | 217 | 86 | 5 | 0 | 1927 |
| 1976 | 0 | 10 | 21 | 68 | 155 | 398 | 344 | 434 | 219 | 22 | 0 | 0 | 1671 |
| 1977 | 0 | 0 | 9 | 21 | 359 | 522 | 584 | 638 | 518 | 112 | 1 | 0 | 2764 |
| 1978 | 0 | 0 | 38 | 139 | 260 | 401 | 531 | 438 | 233 | 30 | 0 | 0 | 2070 |
| 1979 | 0 | 0 | 5 | 43 | 216 | 383 | 539 | 442 | 314 | 167 | 0 | 0 | 2109 |
| 1980 | 0 | 0 | 0 | 17 | 166 | 514 | 600 | 498 | 260 | 33 | 2 | 0 | 2090 |
| 1981 | 0 | 0 | 0 | 71 | 188 | 428 | 583 | 480 | 327 | 135 | 0 | 0 | 2212 |
| 1982 | 0 | 3 | 20 | 84 | 204 | 429 | 543 | 556 | 374 | 111 | 1 | 0 | 2325 |
| 1983 | 0 | 0 | 5 | 64 | 227 | 439 | 588 | 599 | 401 | 151 | 11 | 0 | 2485 |
| 1984 | 0 | 0 | 10 | 69 | 296 | 447 | 500 | 482 | 267 | 39 | 2 | 0 | 2112 |
| 1985 | 0 | 1 | 26 | 115 | 311 | 376 | 505 | 599 | 310 | 56 | 3 | 0 | 2302 |
| 1986 | 0 | 13 | 13 | 147 | 259 | 371 | 496 | 460 | 286 | 38 | 0 | 0 | 2083 |
| 1987 | 0 | 0 | 0 | 39 | 151 | 328 | 487 | 511 | 251 | 86 | 7 | 0 | 1860 |
| 1988 | 0 | 0 | 13 | 51 | 198 | 414 | 397 | 452 | 242 | 52 | 22 | 0 | 1841 |
| 1989 | 0 | 0 | 36 | 164 | 376 | 416 | 569 | 487 | 244 | 111 | 4 | 0 | 2407 |
| 1990 | 0 | 0 | 15 | 103 | 312 | 651 | 441 | 428 | 310 | 68 | 19 | 0 | 2347 |
| 1991 | 0 | 1 | 17 | 80 | 374 | 440 | 447 | 399 | 200 | 101 | 0 | 0 | 2059 |
| 1992 | 0 | 0 | 1 | 68 | 131 | 367 | 468 | 377 | 303 | 83 | 4 | 0 | 1802 |
| 1993 | 0 | 0 | 6 | 75 | 213 | 422 | 579 | 510 | 224 | 95 | 0 | 0 | 2124 |
| 1994 | 0 | 0 | 27 | 74 | 240 | 594 | 576 | 526 | 271 | 118 | 7 | 0 | 2433 |
| 1995 | 0 | 0 | 26 | 94 | 227 | 398 | 566 | 529 | 302 | 97 | 3 | 0 | 2242 |
| 1996 | 0 | 18 | 6 | 98 | 510 | 546 | 611 | 471 | 252 | 77 | 4 | 0 | 2593 |
| 1997 | 2 | 0 | 18 | 35 | 211 | 395 | 557 | 531 | 373 | 125 | 0 | 0 | 2247 |
| 1998 | 0 | 0 | 27 | 52 | 441 | 626 | 684 | 519 | 444 | 178 | 6 | 1 | 2978 |
| 1999 | 0 | 5 | 8 | 111 | 289 | 436 | 553 | 604 | 320 | 77 | 3 | 0 | 2406 |
| 2000 | 0 | 2 | 18 | 162 | 446 | 418 | 640 | 570 | 404 | 110 | 0 | 0 | 2770 |
| 2001 | 0 | 0 | 1 | 118 | 348 | 566 | 674 | 533 | 313 | 88 | 18 | 0 | 2659 |
| 2002 | 0 | 2 | 14 | 135 | 296 | 521 | 546 | 636 | 329 | 84 | 3 | 0 | 2566 |

SNOWFALL (inches) 2002 MIDLAND - ODESSA, TX (MAF)

| YEAR | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | TOTAL |
|----------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|
| 1973-74 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 7.0 | 0.7 | 0.0 | 0.0 | 0.0 | 0.0 | 7.7 |
| 1974-75 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.4 | 1.6 | T | 0.0 | 0.0 | 0.0 | 2.1 |
| 1975-76 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.3 | 0.3 | T | 0.0 | 0.0 | 0.0 | 0.0 | 1.6 |
| 1976-77 | 0.0 | 0.0 | 0.0 | 0.0 | 5.1 | T | 0.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 5.8 |
| 1977-78 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | T | 1.1 | T | T | 0.0 | 0.0 | 0.0 | 1.1 |
| 1978-79 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.1 | T | 2.0 | 0.0 | 0.0 | 0.0 | 0.0 | 3.1 |
| 1979-80 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.1 | 0.1 | 3.2 | 0.0 | T | 0.0 | 0.0 | 5.4 |
| 1980-81 | 0.0 | 0.0 | 0.0 | T | 7.2 | T | 4.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 11.6 |
| 1981-82 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 3.8 | T | 0.0 | 0.0 | 0.0 | 0.0 | 3.8 |
| 1982-83 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 6.4 | 5.3 | T | T | 0.5 | 0.0 | 0.0 | 12.3 |
| 1983-84 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.1 | T | T | T | 0.0 | 0.0 | 0.0 | 2.1 |
| 1984-85 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | T | 9.0 | 0.7 | 0.0 | 0.0 | 0.0 | 0.0 | 9.7 |
| 1985-86 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.5 | 2.0 | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 | 2.7 |
| 1986-87 | 0.0 | 0.0 | 0.0 | 0.0 | T | 8.5 | 1.1 | 2.0 | 0.1 | 0.0 | 0.0 | 0.0 | 11.7 |
| 1987-88 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.2 | T | 3.2 | 0.1 | 0.0 | 0.0 | 0.0 | 4.5 |
| 1988-89 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.5 | 0.6 | T | 5.5 | 0.0 | 0.0 | T | 7.6 |
| 1989-90 | 0.0 | 0.0 | 0.0 | 0.0 | 0.4 | 0.3 | 0.0 | 0.0 | 0.0 | 0.3 | 0.0 | 0.0 | 1.0 |
| 1990-91 | 0.0 | 0.0 | 0.0 | 0.0 | T | 0.2 | 5.8 | T | 0.0 | 0.0 | 0.0 | T | 6.0 |
| 1991-92 | 0.0 | 0.0 | 0.0 | 0.1 | 0.0 | T | 5.8 | 2.1 | T | 0.0 | T | T | 8.0 |
| 1992-93 | 0.0 | T | 0.0 | 0.0 | T | 4.2 | T | T | T | 0.0 | 0.0 | T | 4.2 |
| 1993-94 | 0.0 | 0.0 | 0.0 | 0.6 | 0.0 | 0.9 | 5.5 | T | T | T | T | 0.0 | 7.0 |
| 1994-95 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.1 | 0.0 | T | 0.0 | T | 0.0 | 2.1 |
| 1995-96 | T | 0.0 | 0.0 | 0.0 | 0.0 | T | 0.6 | 0.2 | 0.2 | 2.0 | 0.0 | 0.0 | |
| 1996-97 | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 | T | 4.5 | 1.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| 1997-98 | 0.0 | T | 0.0 | 0.0 | T | 3.0 | T | 0.0 | T | 0.0 | 0.0 | T | 3.0 |
| 1998-99 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 9.8 | 0.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 10.6 |
| 1999-00 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.3 | T | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.3 |
| 2000-01 | 0.0 | 0.0 | 0.0 | 0.0 | 1.2 | 0.3 | 2.2 | T | 0.0 | 0.0 | T | 0.0 | 3.7 |
| 2001-02 | 0.0 | 0.0 | T | 0.0 | 8.0 | T | 0.8 | T | T | 0.0 | 0.0 | 0.0 | 8.8 |
| 2002- | T | 0.0 | 0.0 | 0.0 | 0.0 | T | | | | | | | |
| POR= 54 YRS | T | T | 0.0 | 0.0 | 0.5 | 1.0 | 1.9 | 0.8 | 0.4 | 0.1 | T | T | 4.7 |

WBAN : 23023

REFERENCE NOTES:

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| <p>PAGE 1: 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: H/C INDICATES HEATING AND COOLING DEGREE DAYS. RH INDICATES RELATIVE HUMIDITY W/O INDICATES WEATHER AND OBSTRUCTIONS S INDICATES SUNSHINE. PR INDICATES PRESSURE. CLOUDINESS ON PAGE 3 IS THE SUM OF THE CEILOMETER AND SATELLITE DATA NOT TO EXCEED EIGHT EIGHTHS(OKTAS).</p> <p>GENERAL: T INDICATES TRACE PRECIPITATION, AN AMOUNT GREATER THAN ZERO BUT LESS THAN THE LOWEST REPORTABLE VALUE. + INDICATES THE VALUE ALSO OCCURS ON EARLIER DATES. BLANK ENTRIES DENOTE MISSING OR UNREPORTED DATA. NORMALS ARE 30-YEAR AVERAGES (1961 - 1990). ASOS INDICATES AUTOMATED SURFACE OBSERVING SYSTEM. PM INDICATES THE LAST DAY OF THE PREVIOUS MONTH. 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. WHEN THE POR FOR A NORMAL IS LESS THAN 30 YEARS, THE NORMAL IS PROVISIONAL AND IS BASED ON THE NUMBER OF YEARS INDICATED. 0.* OR * INDICATES THE VALUE OR MEAN-DAYS-WITH IS BETWEEN 0.00 AND 0.05. 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. 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: CLEAR INDICATES 0 - 2 OKTAS, PARTLY CLOUDY INDICATES 3 - 6 OKTAS, AND CLOUDY INDICATES 7 OR 8 OKTAS. WHEN AT LEAST ONE OF THE ELEMENTS (CEILOMETER OR SATELLITE) IS MISSING, THE DAILY CLOUDINESS IS NOT COMPUTED. WIND DIRECTION IS RECORDED IN TENS OF DEGREES (2 DIGITS) CLOCKWISE FROM TRUE NORTH. "00" INDICATES CALM. "36" INDICATES TRUE NORTH. RESULTANT WIND IS THE VECTOR AVERAGE OF THE SPEED AND DIRECTION. AVERAGE TEMPERATURE IS THE SUM OF THE MEAN DAILY MAXIMUM AND MINIMUM TEMPERATURE DIVIDED BY 2. SNOWFALL DATA COMPRISE ALL FORMS OF FROZEN PRECIPITATION, INCLUDING HAIL. A HEATING (COOLING) DEGREE DAY IS THE DIFFERENCE BETWEEN THE AVERAGE DAILY TEMPERATURE AND 65° F. DRY BULB IS THE TEMPERATURE OF THE AMBIENT AIR. DEW POINT IS THE TEMPERATURE TO WHICH THE AIR MUST BE COOLED TO ACHIEVE 100 PERCENT RELATIVE HUMIDITY. 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> |
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2002
MIDLAND - ODESSA,
TEXAS (MAF)

The Midland-Odesa region is on the southern extension of the South Plains of Texas. The terrain is level with only slight occasional undulations.

The climate is typical of a semi-arid region. The vegetation of the area consists mostly of native grasses and a few trees, mostly of the mesquite variety.

Most of the annual precipitation in the area comes as a result of very violent spring and early summer thunderstorms. These are usually accompanied by excessive rainfall, over limited areas, and sometimes hail. Due to the flat nature of the countryside, local flooding occurs, but is of short duration. Tornadoes are occasionally sighted.

During the late winter and early spring months, blowing dust occurs frequently. The flat plains of the area with only grass as vegetation offer little resistance to the strong winds. The sky is occasionally obscured by dust but in most storms visibilities range from 1 to 3 miles.

Daytime temperatures are quite hot in the summer, but there is a large diurnal range of temperature and most nights are comfortable. The temperature drops below 32 degrees in the fall about mid-November and the last temperature below 32 degrees in spring comes early in April.

Winters are characterized by frequent cold periods followed by rapid warming. Cold frontal passages are followed by chilly weather for two or three days. Cloudiness is at a minimum. Summers are hot and dry with numerous small convective showers.

The prevailing wind direction in this area is from the southeast. This, together with the upslope of the terrain from the same direction, causes occasional low cloudiness and drizzle during winter and spring months. Snow is infrequent. Maximum temperatures during the summer months frequently are from 2 to 6 degrees cooler than those at places 100 miles southeast, due to the cooling effect of the upslope winds.

Very low humidities are conducive to personal comfort, because even though summer afternoon temperatures are frequently above 90 degrees, the low humidity with resultant rapid evaporation, has a cooling effect. The climate of the area is generally quite pleasant with the most disagreeable weather concentrated in the late winter and spring months.

STATION LOCATION

MIDLAND – ODESSA, TEXAS

| LOCATION | Occupied From | Occupied To | Airline Distances and Directions from previous Location | LATITUDE NORTH | LONGITUDE WEST | ELEVATION ABOVE | | | | | | | | | | AUTOMATIC OBSERVING EQUIPMENT * | * TYPE M = AMOS T = AUTOB S = ASOS W = AWOS REMARKS |
|---|---------------|-------------|---|----------------|----------------|-----------------|--------|-----------------|---------------------|--------------|-----------------|---------------|--------------------|------------------|---|---------------------------------|--|
| | | | | | | GROUND | | | | | | | | | | | |
| | | | | | | SEA LEVEL | GROUND | WIND INSTRUMENT | EXTREME THERMOMETER | PSYCHROMETER | SUNSHINE SWITCH | TIPPING GAUGE | WEIGHING RAIN GAGE | 8 INCH RAIN GAGE | HYGROMETER | | |
| <p>*NOTE:</p> <p><u>AIRPORT</u></p> <p>NWS Building Midland-Odezza Regional Airport +</p> <p>+ Midland Regional Air Terminal, effective in 1974</p> <p>Midland International Airport eff. 3/1988.</p> | 4/24/72 | 03/01/96 | 1.0 mi. ENE | 31°56' | 102°11' | 2851 j2862 | d22 | 4 | 4 | h15 | 2 | 2 | 4 | d4 i6 | <p>d. Same site as prior to 4/24/72.</p> <p>g. Added 2/11/77.</p> <p>h. Installed 10/8/80.</p> <p>i. Type change and minor relocation 7/27/82.</p> <p>j. Effective 3/21/88.</p> | | |
| Midland Int'l Airport | 03/01/96 | Present | NA | 31°56' | 102°12' | k2863 | | | | | | | | S | ASOS Commissioned 03/01/96. k. Ground elevation. | | |

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* NOTES: For earlier station history see previous edition.