

2003

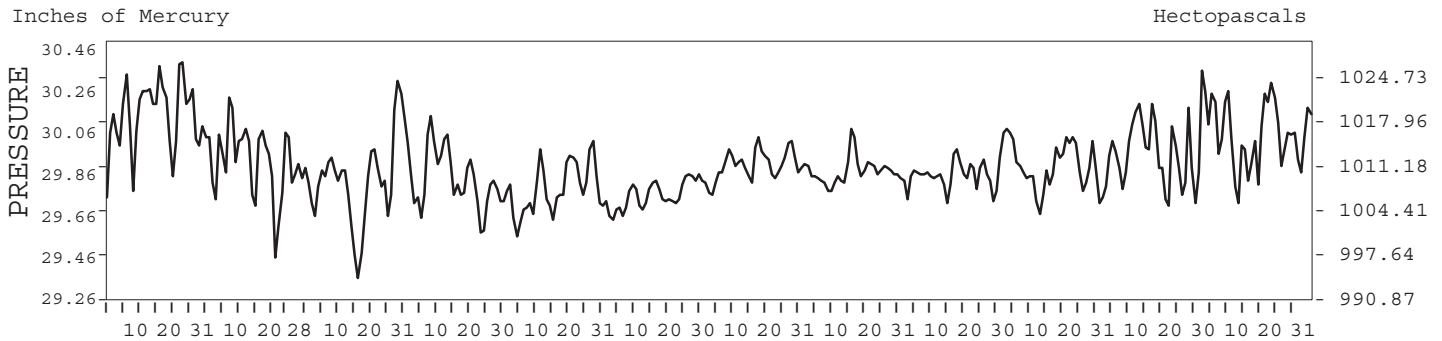
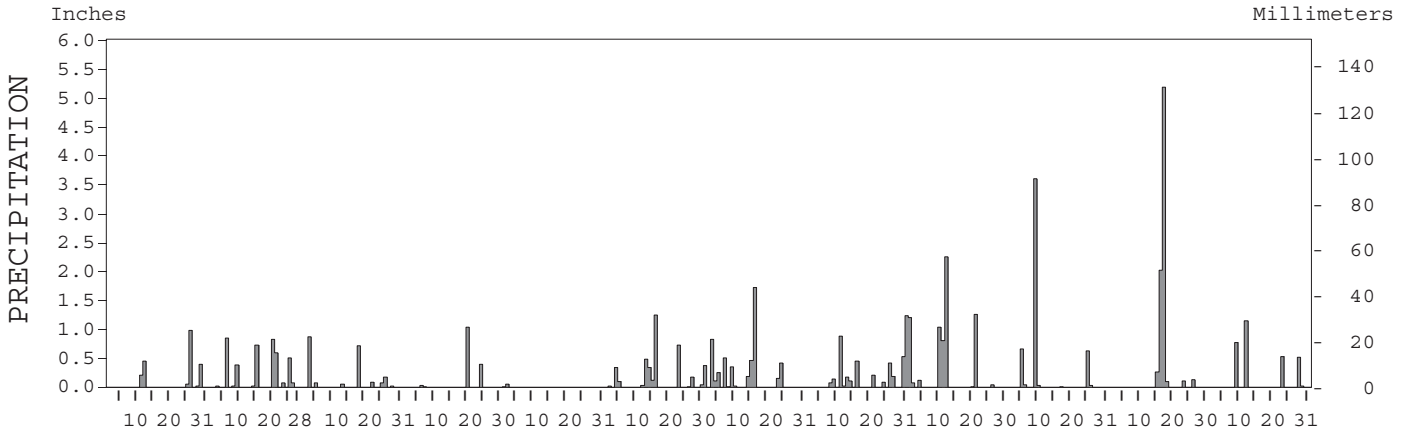
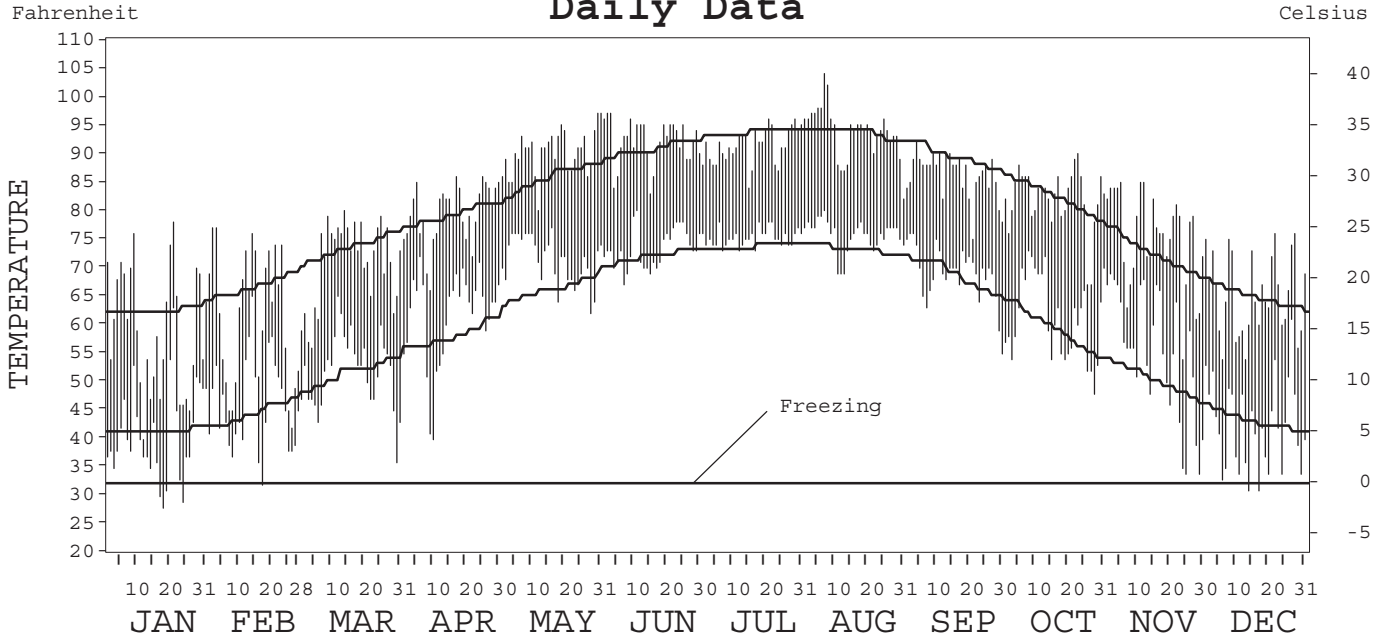
LOCAL CLIMATOLOGICAL DATA ANNUAL SUMMARY WITH COMPARATIVE DATA



ISSN 0198-5086

HOUSTON,
TEXAS (IAH)

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

HOUSTON, TX (IAH)

LATITUDE: 29° 59' 33" N LONGITUDE: 95° 21' 50" W ELEVATION (FT): GRND: 118 BARO: 121 TIME ZONE: CENTRAL (UTC + 6) WBAN: 12960

| | ELEMENT | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | YEAR | |
|----------------------|-------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-----------|----|
| TEMPERATURE °F | MEAN DAILY MAXIMUM | 59.2 | 61.6 | 71.0 | 79.5 | 90.2 | 92.1 | 91.4 | 93.8 | 86.3 | 82.1 | 75.1 | 65.3 | 79.0 | |
| | HIGHEST DAILY MAXIMUM | 78 | 77 | 80 | 86 | 97 | 97 | 96 | 104 | 92 | 90 | 85 | 76 | 104 | |
| | DATE OF OCCURRENCE | 21 | 03+ | 14 | 25+ | 31+ | 03+ | 29+ | 07 | 04 | 23 | 12+ | 28+ | AUG 07 | |
| | MEAN DAILY MINIMUM | 40.9 | 46.0 | 51.8 | 61.5 | 71.3 | 73.3 | 75.3 | 75.6 | 69.0 | 61.3 | 54.8 | 42.3 | 60.3 | |
| | LOWEST DAILY MINIMUM | 28 | 32 | 36 | 40 | 62 | 67 | 73 | 69 | 55 | 48 | 34 | 31 | 28 | |
| | DATE OF OCCURRENCE | 18 | 17 | 30 | 10 | 28 | 07 | 17+ | 13+ | 30 | 28 | 29+ | 17* | JAN 18 | |
| | AVERAGE DRY BULB | 50.1 | 53.8 | 61.4 | 70.5 | 80.8 | 82.7 | 83.4 | 84.7 | 77.7 | 71.7 | 65.0 | 53.8 | 69.6 | |
| | MEAN WET BULB | 45.7 | 50.3 | 56.3 | 64.5 | 72.4 | 75.7 | 76.7 | 76.8 | 71.4 | 65.4 | 59.9 | 48.7 | 63.7 | |
| | MEAN DEW POINT | 39.9 | 47.0 | 52.4 | 60.4 | 68.5 | 72.9 | 74.2 | 73.8 | 68.5 | 61.7 | 55.3 | 42.9 | 59.8 | |
| | NUMBER OF DAYS WITH: | | | | | | | | | | | | | | |
| | MAXIMUM ≥ 90° | 0 | 0 | 0 | 0 | 18 | 24 | 22 | 25 | 5 | 1 | 0 | 0 | 0 | 95 |
| | MAXIMUM ≤ 32° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | MINIMUM ≤ 32° | 4 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 7 | |
| | MINIMUM ≤ 0° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| H/C | HEATING DEGREE DAYS | 461 | 314 | 135 | 24 | 0 | 0 | 0 | 0 | 0 | 12 | 105 | 342 | 1393 | |
| | COOLING DEGREE DAYS | 6 | 6 | 31 | 196 | 495 | 538 | 575 | 617 | 387 | 228 | 111 | 3 | 3193 | |
| RH | MEAN (PERCENT) | 72 | 80 | 78 | 74 | 70 | 76 | 79 | 76 | 78 | 75 | 74 | 71 | 75 | |
| | HOUR 00 LST | 80 | 85 | 87 | 87 | 81 | 87 | 88 | 87 | 91 | 88 | 84 | 83 | 86 | |
| | HOUR 06 LST | 84 | 89 | 92 | 91 | 88 | 94 | 94 | 94 | 93 | 92 | 88 | 86 | 90 | |
| | HOUR 12 LST | 60 | 74 | 68 | 59 | 55 | 60 | 64 | 58 | 64 | 57 | 59 | 53 | 61 | |
| | HOUR 18 LST | 62 | 73 | 62 | 60 | 58 | 64 | 69 | 66 | 67 | 66 | 68 | 61 | 65 | |
| S | PERCENT POSSIBLE SUNSHINE | | | | | | | | | | | | | | |
| W/O | NUMBER OF DAYS WITH: | | | | | | | | | | | | | | |
| | HEAVY FOG (VISBY ≤ 1/4 MI) | 2 | 5 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 3 | 0 | 20 | |
| | THUNDERSTORMS | 0 | 6 | 4 | 3 | 1 | 12 | 15 | 13 | 8 | 3 | 3 | 3 | 71 | |
| CLOUDINESS | SUNRISE-SUNSET: (OKTAS) | | | | | | | | | | | | | | |
| | CEILOMETER (≤ 12,000 FT.) | | | | | | | | | | | | | | |
| | SATELLITE (> 12,000 FT.) | | | | | | | | | | | | | | |
| | MIDNIGHT-MIDNIGHT: (OKTAS) | | | | | | | | | | | | | | |
| | CEILOMETER (≤ 12,000 FT.) | | | | | | | | | | | | | | |
| | SATELLITE (> 12,000 FT.) | | | | | | | | | | | | | | |
| NUMBER OF DAYS WITH: | | | | | | | | | | | | | | | |
| CLEAR | | | | | | | | | | | | | | | |
| PARTLY CLOUDY | | | | | | | | | | | | | | | |
| CLOUDY | | | | | | | | | | | | | | | |
| PR | MEAN STATION PRESS. (IN.) | 30.14 | 29.92 | 29.83 | 29.85 | 29.79 | 29.76 | 29.90 | 29.87 | 29.87 | 29.89 | 29.99 | 30.05 | 29.90 | |
| | MEAN SEA-LEVEL PRESS. (IN.) | 30.26 | 30.04 | 29.94 | 29.97 | 29.90 | 29.87 | 30.02 | 29.98 | 29.99 | 30.00 | 30.10 | 30.16 | 30.02 | |
| WINDS | RESULTANT SPEED (MPH) | 2.0 | 1.4 | 1.1 | 2.8 | 2.9 | 0.7 | 0.8 | 1.8 | 2.7 | 1.1 | 1.3 | 0.5 | 1.0 | |
| | RES. DIR. (TENS OF DEGS.) | 35 | 04 | 07 | 12 | 02 | 08 | 20 | 13 | 06 | 13 | 10 | 12 | 08 | |
| | MEAN SPEED (MPH) | 7.7 | 9.1 | 7.2 | 8.3 | 8.6 | 3.9 | 2.8 | 6.0 | 5.5 | 6.3 | 7.9 | 8.3 | 6.8 | |
| | PREVAIL. DIR. (TENS OF DEGS.) | 01 | 16 | 16 | 16 | 17 | 16 | 19 | 18 | 02 | 16 | 16 | 32 | 16 | |
| | MAXIMUM 2-MINUTE WIND: | | | | | | | | | | | | | | |
| | SPEED (MPH) | 31 | 24 | 35 | 29 | 28 | 32 | 25 | 37 | 28 | 24 | 32 | 30 | 37 | |
| | DIR. (TENS OF DEGS.) | 33 | 14 | 29 | 15 | 16 | 33 | 14 | 06 | 01 | 01 | 28 | 31 | 06 | |
| | DATE OF OCCURRENCE | 16 | 15+ | 18 | 15 | 16 | 05 | 26 | 11 | 12 | 14 | 18 | 09 | AUG 11 | |
| | MAXIMUM 5-SECOND WIND: | | | | | | | | | | | | | | |
| | SPEED (MPH) | 38 | 31 | 41 | 35 | 36 | 39 | 29 | 43 | 40 | 32 | 40 | 39 | 43 | |
| DIR. (TENS OF DEGS.) | 33 | 19 | 30 | 17 | 15 | 33 | 14 | 06 | 34 | 02 | 29 | 30 | 06 | | |
| DATE OF OCCURRENCE | 16 | 23 | 18 | 01 | 16 | 05 | 26 | 11 | 12 | 14 | 18 | 09 | AUG 11 | | |
| PRECIPITATION | WATER EQUIVALENT: | | | | | | | | | | | | | | |
| | TOTAL (IN.) | 2.09 | 4.08 | 2.04 | 1.46 | 0.06 | 3.62 | 5.35 | 4.47 | 6.79 | 4.99 | 7.80 | 2.99 | 45.74 | |
| | GREATEST 24-HOUR (IN.) | 1.00 | 0.85 | 0.87 | 1.03 | 0.06 | 1.25 | 1.78 | 1.76 | 3.04 | 3.63 | 5.67 | 1.15 | 5.67 | |
| | DATE OF OCCURRENCE | 25-26 | 06 | 03 | 20 | 01-02 | 16 | 15-16 | 30-31 | 11-12 | 09-10 | 16-17 | 12 | NOV 16-17 | |
| | NUMBER OF DAYS WITH: | | | | | | | | | | | | | | |
| | PRECIPITATION ≥ 0.01 | 6 | 11 | 8 | 4 | 2 | 12 | 13 | 13 | 9 | 7 | 6 | 5 | 96 | |
| PRECIPITATION ≥ 0.10 | 4 | 6 | 3 | 2 | 0 | 7 | 11 | 10 | 6 | 3 | 5 | 4 | 61 | | |
| PRECIPITATION ≥ 1.00 | 0 | 0 | 0 | 1 | 0 | 1 | 1 | 1 | 4 | 1 | 2 | 1 | 12 | | |
| SNOWFALL | SNOW, ICE PELLETS, HAIL: | | | | | | | | | | | | | | |
| | TOTAL (IN.) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| | GREATEST 24-HOUR (IN.) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| | DATE OF OCCURRENCE | | | | | | | | | | | | | | |
| | MAXIMUM SNOW DEPTH (IN.) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | NUMBER OF DAYS WITH: | | | | | | | | | | | | | | |
| SNOWFALL ≥ 1.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |

NORMALS, MEANS, AND EXTREMES

HOUSTON, TX (IAH)

LATITUDE: 29° 59' 33" N LONGITUDE: 95° 21' 50" W ELEVATION (FT): GRND: 118 BARO: 121 TIME ZONE: CENTRAL (UTC + 6) WBAN: 12960

| ELEMENT | | POR | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | YEAR |
|-----------------------|-----------------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|----------|
| TEMPERATURE °F | NORMAL DAILY MAXIMUM | 30 | 62.3 | 66.5 | 73.3 | 79.1 | 85.5 | 90.7 | 93.6 | 93.5 | 89.3 | 82.0 | 72.0 | 64.6 | 79.4 |
| | MEAN DAILY MAXIMUM | 34 | 61.8 | 66.1 | 72.6 | 79.2 | 85.5 | 90.8 | 93.8 | 93.6 | 88.8 | 81.3 | 71.6 | 64.7 | 79.1 |
| | HIGHEST DAILY MAXIMUM | 34 | 84 | 91 | 91 | 95 | 99 | 103 | 104 | 107 | 109 | 96 | 89 | 85 | 109 |
| | YEAR OF OCCURRENCE | | 1975 | 1986 | 1989 | 1987 | 1996 | 1980 | 1980 | 2000 | 2000 | 1991 | 1989 | 1995 | SEP 2000 |
| | MEAN OF EXTREME MAXS. | 34 | 78.4 | 81.3 | 85.2 | 88.5 | 92.7 | 96.7 | 98.5 | 99.4 | 96.5 | 91.1 | 85.0 | 80.0 | 89.4 |
| | NORMAL DAILY MINIMUM | 30 | 41.2 | 44.3 | 51.3 | 57.9 | 66.1 | 71.8 | 73.5 | 73.0 | 68.4 | 58.8 | 49.8 | 42.8 | 58.2 |
| | MEAN DAILY MINIMUM | 34 | 41.3 | 44.5 | 50.9 | 58.2 | 65.9 | 71.5 | 73.4 | 73.0 | 68.5 | 58.9 | 49.8 | 43.5 | 58.3 |
| | LOWEST DAILY MINIMUM | 34 | 12 | 20 | 22 | 31 | 44 | 52 | 62 | 60 | 48 | 29 | 19 | 7 | 7 |
| | YEAR OF OCCURRENCE | | 1982 | 1997 | 2002 | 1987 | 1978 | 1970 | 1990 | 1992 | 1975 | 1993 | 1976 | 1989 | DEC 1989 |
| | MEAN OF EXTREME MINS. | 34 | 24.8 | 27.3 | 32.6 | 40.2 | 52.4 | 62.7 | 68.4 | 67.7 | 54.4 | 42.3 | 32.2 | 26.8 | 44.3 |
| | NORMAL DRY BULB | 30 | 51.8 | 55.4 | 62.3 | 68.5 | 75.8 | 81.3 | 83.6 | 83.3 | 78.9 | 70.4 | 60.9 | 53.7 | 68.8 |
| | MEAN DRY BULB | 34 | 51.7 | 55.3 | 61.7 | 68.7 | 75.6 | 81.0 | 83.6 | 83.2 | 78.6 | 70.0 | 60.6 | 54.1 | 68.7 |
| | MEAN WET BULB | 20 | 48.1 | 51.3 | 56.4 | 63.0 | 70.1 | 74.6 | 75.8 | 75.8 | 71.5 | 64.4 | 56.3 | 47.4 | 62.9 |
| | MEAN DEW POINT | 20 | 42.9 | 46.4 | 51.5 | 58.6 | 66.8 | 71.6 | 72.9 | 72.5 | 68.0 | 60.8 | 52.3 | 43.2 | 59.0 |
| | NORMAL NO. DAYS WITH: | | | | | | | | | | | | | | |
| MAXIMUM ≥ 90° | 30 | 0.0 | 0.1 | 0.1 | 0.9 | 6.4 | 20.1 | 27.3 | 25.7 | 15.9 | 3.1 | 0.0 | 0.0 | 99.6 | |
| MAXIMUM ≤ 32° | 30 | 0.1 | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 | 0.5 | |
| MINIMUM ≤ 32° | 30 | 6.3 | 3.8 | 1.3 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 1.3 | 5.1 | 18.0 | |
| MINIMUM ≤ 0° | 30 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| H/C | NORMAL HEATING DEG. DAYS | 30 | 427 | 298 | 156 | 48 | 2 | 0 | 0 | 0 | 1 | 37 | 189 | 367 | 1525 |
| | NORMAL COOLING DEG. DAYS | 30 | 15 | 21 | 63 | 147 | 328 | 485 | 573 | 563 | 412 | 196 | 65 | 25 | 2893 |
| RH | NORMAL (PERCENT) | 30 | 75 | 74 | 73 | 74 | 76 | 76 | 74 | 75 | 76 | 75 | 76 | 76 | 75 |
| | HOUR 00 LST | 30 | 82 | 83 | 83 | 85 | 87 | 88 | 86 | 87 | 88 | 88 | 86 | 84 | 86 |
| | HOUR 06 LST | 30 | 86 | 87 | 88 | 89 | 92 | 92 | 93 | 94 | 93 | 91 | 89 | 87 | 90 |
| | HOUR 12 LST | 30 | 64 | 60 | 59 | 58 | 60 | 60 | 57 | 57 | 59 | 57 | 61 | 62 | 60 |
| | HOUR 18 LST | 30 | 67 | 62 | 60 | 60 | 64 | 64 | 62 | 62 | 66 | 68 | 72 | 71 | 65 |
| S | PERCENT POSSIBLE SUNSHINE | 27 | 45 | 50 | 54 | 58 | 62 | 68 | 70 | 68 | 66 | 64 | 52 | 51 | 59 |
| W/O | MEAN NO. DAYS WITH: | | | | | | | | | | | | | | |
| | HEAVY FOG (VISBY ≤ 1/4 MI) | 34 | 4.4 | 3.4 | 3.0 | 2.3 | 1.6 | 0.7 | 0.2 | 0.3 | 1.2 | 2.6 | 3.4 | 3.8 | 26.9 |
| | THUNDERSTORMS | 34 | 2.1 | 2.4 | 3.6 | 3.9 | 6.7 | 8.9 | 10.1 | 10.3 | 7.2 | 3.9 | 3.0 | 2.0 | 64.1 |
| CLOUDINESS | MEAN: | | | | | | | | | | | | | | |
| | SUNRISE-SUNSET (OKTAS) | 27 | 5.5 | 5.3 | 5.4 | 5.3 | 5.2 | 4.6 | 4.4 | 4.4 | 4.2 | 4.0 | 4.6 | 5.3 | 4.8 |
| | MIDNIGHT-MIDNIGHT (OKTAS) | 26 | 5.3 | 5.0 | 5.1 | 5.0 | 4.9 | 3.9 | 3.8 | 3.7 | 3.6 | 3.5 | 4.3 | 5.0 | 4.4 |
| | MEAN NO. DAYS WITH: | | | | | | | | | | | | | | |
| | CLEAR | 27 | 7.2 | 7.0 | 7.0 | 7.2 | 5.6 | 7.3 | 6.9 | 6.1 | 8.6 | 11.2 | 9.0 | 7.2 | 90.3 |
| PARTLY CLOUDY | 27 | 5.4 | 5.6 | 6.4 | 7.1 | 11.0 | 13.3 | 15.9 | 16.9 | 11.5 | 8.9 | 7.0 | 5.5 | 114.5 | |
| CLOUDY | 27 | 18.4 | 15.6 | 17.6 | 15.7 | 14.3 | 9.3 | 8.2 | 8.0 | 10.0 | 10.9 | 14.0 | 18.3 | 160.3 | |
| PR | MEAN STATION PRESSURE (IN) | 31 | 30.00 | 29.99 | 29.90 | 29.90 | 29.80 | 29.90 | 29.90 | 29.89 | 29.90 | 30.00 | 30.00 | 30.00 | 29.91 |
| | MEAN SEA-LEVEL PRES. (IN) | 19 | 30.14 | 30.09 | 30.02 | 29.97 | 29.93 | 29.94 | 30.00 | 29.98 | 29.97 | 30.04 | 30.09 | 30.14 | 30.03 |
| WINDS | MEAN SPEED (MPH) | 31 | 8.1 | 8.4 | 9.0 | 9.0 | 8.1 | 7.5 | 6.7 | 6.1 | 6.6 | 7.1 | 7.7 | 7.7 | 7.7 |
| | PREVAIL. DIR (TENS OF DEGS) | 31 | 36 | 36 | 16 | 16 | 16 | 16 | 18 | 18 | 12 | 13 | 36 | 35 | 13 |
| | MAXIMUM 2-MINUTE: | | | | | | | | | | | | | | |
| | SPEED (MPH) | 7 | 31 | 40 | 35 | 37 | 36 | 41 | 36 | 38 | 37 | 29 | 32 | 46 | 46 |
| | DIR. (TENS OF DEGS) | | 33 | 10 | 29 | 11 | 02 | 33 | 34 | 02 | 29 | 12 | 28 | 14 | 14 |
| | YEAR OF OCCURRENCE | | 2003 | 2000 | 2003 | 1997 | 1999 | 2002 | 1998 | 2002 | 2002 | 2002 | 2003 | 2002 | DEC 2002 |
| | MAXIMUM 5-SECOND: | | | | | | | | | | | | | | |
| SPEED (MPH) | 7 | 38 | 44 | 41 | 43 | 47 | 66 | 49 | 45 | 48 | 47 | 43 | 52 | 66 | |
| DIR. (TENS OF DEGS) | | 33 | 10 | 30 | 09 | 35 | 15 | 33 | 01 | 10 | 13 | 31 | 13 | 15 | |
| YEAR OF OCCURRENCE | | 2003 | 2000 | 2003 | 1997 | 1997 | 2000 | 1998 | 2002 | 2000 | 1998 | 2000 | 2002 | JUN 2000 | |
| PRECIPITATION | NORMAL (IN) | 30 | 3.68 | 2.98 | 3.36 | 3.60 | 5.15 | 5.35 | 3.18 | 3.83 | 4.33 | 4.50 | 4.19 | 3.69 | 47.84 |
| | MAXIMUM MONTHLY (IN) | 34 | 9.78 | 5.99 | 8.52 | 10.92 | 14.39 | 19.21 | 8.10 | 10.58 | 11.35 | 16.05 | 10.21 | 9.34 | 19.21 |
| | YEAR OF OCCURRENCE | | 1991 | 1992 | 1972 | 1976 | 1970 | 2001 | 1979 | 1996 | 1976 | 1984 | 1998 | 1991 | JUN 2001 |
| | MINIMUM MONTHLY (IN) | 34 | 0.36 | 0.38 | 0.12 | 0.43 | 0.04 | 0.26 | 0.47 | 0.31 | 0.80 | 0.05 | 0.41 | 0.64 | 0.04 |
| | YEAR OF OCCURRENCE | | 1971 | 1976 | 1996 | 1983 | 1998 | 1970 | 1993 | 1990 | 1975 | 1978 | 1988 | 1973 | MAY 1998 |
| | MAXIMUM IN 24 HOURS (IN) | 34 | 2.73 | 2.22 | 7.47 | 8.16 | 10.36 | 11.02 | 5.40 | 6.83 | 7.98 | 9.31 | 6.33 | 4.14 | 11.02 |
| | YEAR OF OCCURRENCE | | 1995 | 1985 | 1972 | 1976 | 1989 | 2001 | 2002 | 1981 | 1976 | 1984 | 1998 | 1995 | JUN 2001 |
| | NORMAL NO. DAYS WITH: | | | | | | | | | | | | | | |
| | PRECIPITATION ≥ 0.01 | 30 | 10.5 | 8.5 | 9.1 | 7.0 | 8.2 | 9.7 | 8.9 | 8.9 | 8.9 | 7.5 | 8.6 | 9.4 | 105.2 |
| PRECIPITATION ≥ 1.00 | 30 | 1.1 | 0.9 | 0.8 | 1.2 | 1.7 | 1.7 | 0.9 | 1.1 | 1.2 | 1.5 | 1.2 | 1.2 | 14.5 | |
| SNOWFALL | NORMAL (IN) | 30 | 0.1 | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.* | 0.1 | 0.4 |
| | MAXIMUM MONTHLY (IN) | 34 | 2.0 | 2.8 | T | T | T | T | 0.0 | 0.0 | 0.0 | 0.0 | T | 1.7 | 2.8 |
| | YEAR OF OCCURRENCE | | 1973 | 1973 | 1992 | 1993 | 1993 | 1996 | | | | | 1979 | 1989 | FEB 1973 |
| | MAXIMUM IN 24 HOURS (IN) | 34 | 2.0 | 1.4 | T | T | T | T | 0.0 | 0.0 | 0.0 | 0.0 | T | 1.7 | 2.0 |
| | YEAR OF OCCURRENCE | | 1973 | 1980 | 1992 | 1993 | 1993 | 1996 | | | | | 1979 | 1989 | JAN 1973 |
| | MAXIMUM SNOW DEPTH (IN) | 33 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| | YEAR OF OCCURRENCE | | 1973 | 1973 | | | | | | | | | | | FEB 1973 |
| NORMAL NO. DAYS WITH: | | | | | | | | | | | | | | | |
| SNOWFALL ≥ 1.0 | 30 | 0.1 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 | |

PRECIPITATION (inches) 2003 HOUSTON, TX (IAH)

| YEAR | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | ANNUAL |
|----------------|------|------|------|-------|-------|-------|------|-------|-------|-------|-------|------|--------|
| 1974 | 7.68 | 0.55 | 4.20 | 1.68 | 5.61 | 0.59 | 1.75 | 6.94 | 4.51 | 4.53 | 7.90 | 3.35 | 49.29 |
| 1975 | 1.97 | 2.63 | 3.19 | 4.80 | 7.57 | 7.50 | 5.48 | 5.72 | 0.80 | 5.62 | 2.08 | 3.61 | 50.97 |
| 1976 | 1.39 | 0.38 | 1.53 | 10.92 | 5.80 | 2.63 | 3.93 | 1.59 | 11.35 | 5.83 | 3.05 | 6.22 | 54.62 |
| 1977 | 2.67 | 1.70 | 1.95 | 4.34 | 0.79 | 3.55 | 2.69 | 4.45 | 3.92 | 0.82 | 5.17 | 2.89 | 34.94 |
| 1978 | 7.15 | 3.07 | 1.70 | 0.57 | 4.15 | 9.37 | 2.35 | 3.66 | 4.27 | 0.05 | 5.99 | 2.60 | 44.93 |
| 1979 | 6.30 | 5.23 | 2.88 | 7.79 | 3.78 | 1.88 | 8.10 | 4.57 | 9.83 | 2.80 | 1.78 | 4.03 | 58.97 |
| 1980 | 6.09 | 2.54 | 5.39 | 2.05 | 5.63 | 0.92 | 1.57 | 1.40 | 6.00 | 4.03 | 2.12 | 1.25 | 38.99 |
| 1981 | 2.32 | 2.21 | 1.74 | 2.69 | 8.75 | 9.65 | 4.43 | 7.01 | 2.91 | 6.96 | 5.26 | 2.05 | 55.98 |
| 1982 | 1.82 | 1.59 | 1.55 | 2.28 | 6.87 | 1.10 | 4.32 | 1.90 | 0.98 | 6.64 | 8.91 | 4.91 | 42.87 |
| 1983 | 2.00 | 3.97 | 3.85 | 0.43 | 7.29 | 5.37 | 5.23 | 9.42 | 7.23 | 1.56 | 3.17 | 3.69 | 53.21 |
| 1984 | 3.99 | 4.37 | 2.41 | 0.56 | 3.13 | 1.99 | 3.43 | 3.52 | 3.87 | 16.05 | 2.28 | 2.59 | 48.19 |
| 1985 | 2.10 | 5.38 | 4.52 | 4.31 | 1.57 | 5.29 | 4.93 | 1.14 | 4.67 | 6.54 | 4.84 | 3.85 | 49.14 |
| 1986 | 0.71 | 2.74 | 1.44 | 2.63 | 4.29 | 6.34 | 0.61 | 3.27 | 3.70 | 6.83 | 6.66 | 5.71 | 44.93 |
| 1987 | 2.42 | 4.26 | 0.88 | 0.47 | 5.39 | 9.31 | 4.79 | 1.48 | 3.46 | 0.17 | 3.41 | 4.56 | 40.60 |
| 1988 | 1.27 | 1.29 | 4.88 | 1.26 | 1.32 | 2.00 | 3.23 | 3.52 | 1.20 | 1.29 | 0.41 | 1.26 | 22.93 |
| 1989 | 4.80 | 0.90 | 3.96 | 1.48 | 13.56 | 16.28 | 1.92 | 2.74 | 2.69 | 1.76 | 1.84 | 0.80 | 52.73 |
| 1990 | 3.96 | 4.54 | 5.11 | 6.21 | 2.23 | 2.98 | 4.85 | 0.31 | 1.57 | 3.79 | 3.01 | 1.81 | 40.37 |
| 1991 | 9.78 | 5.79 | 1.77 | 8.06 | 4.02 | 7.69 | 1.31 | 2.97 | 2.76 | 2.57 | 5.03 | 9.34 | 61.09 |
| 1992 | 7.70 | 5.99 | 6.28 | 3.74 | 7.05 | 3.38 | 3.85 | 2.78 | 1.08 | 1.03 | 5.99 | 3.46 | 52.33 |
| 1993 | 5.79 | 2.67 | 6.41 | 7.88 | 8.50 | 12.08 | 0.47 | 1.82 | 1.10 | 5.32 | 3.27 | 2.68 | 57.99 |
| 1994 | 2.08 | 2.79 | 2.39 | 2.11 | 5.02 | 3.40 | 1.60 | 5.45 | 1.12 | 10.62 | 1.67 | 4.90 | 43.15 |
| 1995 | 5.95 | 2.55 | 4.11 | 2.59 | 3.83 | 4.11 | 2.68 | 4.90 | 2.52 | 2.77 | 3.63 | 4.99 | 44.63 |
| 1996 | 0.88 | 1.29 | 0.12 | 2.05 | 0.56 | 8.37 | 1.11 | 10.58 | 6.96 | 2.60 | 4.55 | 3.74 | 42.81 |
| 1997 | 3.26 | 5.35 | 7.96 | 7.17 | 6.69 | 4.46 | 2.30 | 2.26 | 4.86 | 7.11 | 3.38 | 5.42 | 60.22 |
| 1998 | 4.35 | 5.85 | 2.32 | 1.21 | 0.04 | 2.87 | 1.65 | 4.38 | 10.16 | 7.79 | 10.21 | 4.01 | 54.84 |
| 1999 | 2.12 | 0.80 | 3.44 | 1.06 | 4.10 | 5.26 | 5.11 | 0.50 | 1.36 | 0.56 | 1.53 | 2.20 | 28.04 |
| 2000 | 1.25 | 2.32 | 1.35 | 5.52 | 12.35 | 3.29 | 0.64 | 2.11 | 4.34 | 3.27 | 8.50 | 2.69 | 47.63 |
| 2001 | 4.25 | 0.82 | 7.97 | 2.00 | 3.53 | 19.21 | 2.05 | 4.83 | 8.82 | 8.95 | 2.58 | 6.18 | 71.19 |
| 2002 | 1.24 | 0.89 | 2.36 | 3.79 | 1.79 | 4.54 | 7.11 | 5.47 | 8.02 | 14.65 | 4.20 | 5.65 | 59.71 |
| 2003 | 2.09 | 4.08 | 2.04 | 1.46 | 0.06 | 3.62 | 5.35 | 4.47 | 6.79 | 4.99 | 7.80 | 2.99 | 45.74 |
| POR= 69 YRS | 3.65 | 3.10 | 2.96 | 3.41 | 4.78 | 4.99 | 3.85 | 3.98 | 4.56 | 4.29 | 4.08 | 4.04 | 47.69 |

WBAN : 12960

AVERAGE TEMPERATURE (°F) 2003 HOUSTON, TX (IAH)

| YEAR | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | ANNUAL |
|----------------|------|------|------|------|------|------|------|------|------|------|------|------|--------|
| 1974 | 55.0 | 56.2 | 66.8 | 67.2 | 76.9 | 79.9 | 82.8 | 81.6 | 74.6 | 70.6 | 60.2 | 54.6 | 68.9 |
| 1975 | 56.9 | 55.4 | 61.1 | 68.3 | 75.9 | 80.0 | 81.5 | 81.1 | 74.9 | 69.5 | 59.7 | 52.7 | 68.1 |
| 1976 | 50.6 | 60.1 | 62.2 | 67.7 | 70.5 | 78.4 | 80.5 | 81.4 | 76.2 | 60.6 | 51.8 | 49.2 | 65.8 |
| 1977 | 42.7 | 53.8 | 60.9 | 66.9 | 74.5 | 81.0 | 82.4 | 83.1 | 80.0 | 69.2 | 61.8 | 53.7 | 67.5 |
| 1978 | 40.8 | 45.1 | 57.3 | 67.6 | 76.0 | 80.4 | 83.7 | 83.1 | 79.3 | 68.9 | 64.7 | 52.9 | 66.7 |
| 1979 | 44.1 | 51.7 | 62.4 | 68.7 | 73.1 | 79.8 | 82.6 | 81.5 | 75.6 | 70.7 | 55.7 | 52.4 | 66.5 |
| 1980 | 55.0 | 53.7 | 60.9 | 66.2 | 77.3 | 85.1 | 87.5 | 86.6 | 83.2 | 67.8 | 58.0 | 55.2 | 69.7 |
| 1981 | 51.4 | 55.4 | 60.9 | 74.3 | 75.3 | 82.7 | 84.4 | 84.4 | 78.6 | 72.3 | 64.4 | 54.5 | 69.9 |
| 1982 | 52.9 | 52.1 | 64.9 | 67.8 | 75.3 | 83.0 | 85.4 | 84.1 | 79.3 | 69.5 | 60.9 | 55.4 | 69.2 |
| 1983 | 50.1 | 52.5 | 58.3 | 64.0 | 73.4 | 79.0 | 82.2 | 82.6 | 76.6 | 70.1 | 63.1 | 45.7 | 66.5 |
| 1984 | 47.0 | 54.0 | 61.9 | 67.8 | 74.9 | 78.6 | 81.8 | 82.9 | 77.4 | 74.2 | 60.0 | 63.4 | 68.7 |
| 1985 | 45.7 | 49.6 | 64.7 | 70.0 | 75.6 | 81.0 | 81.6 | 84.2 | 79.8 | 72.5 | 67.0 | 51.0 | 68.6 |
| 1986 | 54.4 | 59.9 | 63.3 | 71.7 | 75.8 | 82.0 | 85.9 | 82.6 | 81.8 | 68.9 | 62.0 | 51.7 | 70.0 |
| 1987 | 51.4 | 56.1 | 58.9 | 67.2 | 77.1 | 81.3 | 83.5 | 86.2 | 78.9 | 68.7 | 60.5 | 55.6 | 68.8 |
| 1988 | 48.1 | 54.1 | 61.3 | 67.6 | 73.6 | 80.5 | 84.4 | 85.3 | 80.8 | 72.0 | 65.7 | 55.4 | 69.1 |
| 1989 | 57.5 | 52.7 | 61.3 | 69.4 | 77.8 | 79.9 | 82.4 | 81.7 | 77.0 | 70.2 | 62.9 | 44.4 | 68.1 |
| 1990 | 57.0 | 59.1 | 62.9 | 69.4 | 78.1 | 84.8 | 82.1 | 85.1 | 80.1 | 68.7 | 63.4 | 53.6 | 70.4 |
| 1991 | 50.4 | 57.4 | 63.5 | 72.2 | 78.0 | 82.0 | 84.0 | 83.0 | 77.4 | 72.3 | 56.7 | 56.2 | 69.4 |
| 1992 | 51.0 | 58.5 | 64.0 | 68.7 | 73.7 | 81.7 | 83.6 | 80.1 | 79.3 | 71.4 | 56.8 | 56.7 | 68.8 |
| 1993 | 53.6 | 56.7 | 61.1 | 65.9 | 73.4 | 81.6 | 85.8 | 86.5 | 80.2 | 69.5 | 56.9 | 54.6 | 68.8 |
| 1994 | 52.6 | 55.2 | 62.7 | 69.6 | 76.0 | 83.5 | 85.5 | 83.1 | 78.3 | 71.9 | 65.7 | 57.2 | 70.1 |
| 1995 | 54.3 | 58.7 | 62.9 | 68.6 | 77.9 | 80.6 | 84.8 | 84.9 | 81.6 | 70.4 | 61.4 | 57.1 | 70.3 |
| 1996 | 52.0 | 58.7 | 58.1 | 69.4 | 81.4 | 80.7 | 83.8 | 82.0 | 77.5 | 70.6 | 62.0 | 57.4 | 69.5 |
| 1997 | 50.8 | 55.3 | 65.3 | 64.2 | 73.6 | 79.2 | 83.1 | 83.2 | 79.1 | 68.9 | 55.7 | 50.1 | 67.4 |
| 1998 | 57.1 | 55.1 | 60.1 | 65.9 | 78.7 | 85.5 | 86.6 | 84.7 | 82.2 | 72.6 | 64.3 | 55.1 | 70.7 |
| 1999 | 57.1 | 61.5 | 63.7 | 73.0 | 76.6 | 81.9 | 83.1 | 86.8 | 78.0 | 69.0 | 62.2 | 53.7 | 70.6 |
| 2000 | 56.5 | 61.7 | 66.4 | 67.9 | 78.1 | 81.4 | 85.2 | 84.8 | 79.4 | 70.9 | 57.6 | 47.6 | 69.8 |
| 2001 | 49.3 | 59.3 | 56.4 | 71.7 | 75.9 | 80.5 | 83.6 | 83.5 | 77.0 | 66.9 | 63.4 | 56.0 | 68.6 |
| 2002 | 54.6 | 50.7 | 61.3 | 73.5 | 77.0 | 81.7 | 84.5 | 83.9 | 79.7 | 71.6 | 58.8 | 54.6 | 69.3 |
| 2003 | 50.1 | 53.8 | 61.4 | 70.5 | 80.8 | 82.7 | 83.4 | 84.7 | 77.7 | 71.7 | 65.0 | 53.8 | 69.6 |
| POR= 34 YRS | 51.6 | 55.2 | 61.9 | 68.8 | 75.7 | 81.1 | 83.5 | 83.3 | 78.6 | 70.2 | 60.7 | 54.1 | 68.7 |

HEATING DEGREE DAYS (base 65°F) 2003 HOUSTON, TX (IAH)

| YEAR | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | TOTAL |
|---------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|
| 1974-75 | 0 | 0 | 0 | 15 | 196 | 336 | 290 | 270 | 179 | 48 | 0 | 0 | 1334 |
| 1975-76 | 0 | 0 | 0 | 26 | 217 | 399 | 441 | 178 | 155 | 26 | 7 | 0 | 1449 |
| 1976-77 | 0 | 0 | 0 | 173 | 398 | 484 | 687 | 312 | 166 | 25 | 0 | 0 | 2245 |
| 1977-78 | 0 | 0 | 0 | 34 | 150 | 365 | 752 | 553 | 250 | 33 | 17 | 0 | 2154 |
| 1978-79 | 0 | 0 | 0 | 22 | 111 | 393 | 646 | 376 | 135 | 23 | 2 | 0 | 1708 |
| 1979-80 | 0 | 0 | 0 | 27 | 297 | 389 | 308 | 350 | 169 | 45 | 0 | 0 | 1585 |
| 1980-81 | 0 | 0 | 0 | 67 | 255 | 323 | 416 | 291 | 144 | 6 | 1 | 0 | 1503 |
| 1981-82 | 0 | 0 | 0 | 50 | 82 | 326 | 409 | 363 | 143 | 79 | 1 | 0 | 1453 |
| 1982-83 | 0 | 0 | 0 | 53 | 175 | 328 | 457 | 346 | 219 | 96 | 0 | 0 | 1674 |
| 1983-84 | 0 | 0 | 6 | 27 | 138 | 606 | 549 | 325 | 150 | 45 | 2 | 0 | 1848 |
| 1984-85 | 0 | 0 | 6 | 12 | 204 | 144 | 591 | 432 | 91 | 22 | 0 | 0 | 1502 |
| 1985-86 | 0 | 0 | 5 | 17 | 76 | 434 | 326 | 209 | 99 | 11 | 0 | 0 | 1177 |
| 1986-87 | 0 | 0 | 0 | 28 | 175 | 411 | 421 | 245 | 196 | 82 | 0 | 0 | 1558 |
| 1987-88 | 0 | 0 | 0 | 16 | 185 | 301 | 525 | 331 | 171 | 35 | 0 | 0 | 1564 |
| 1988-89 | 0 | 0 | 0 | 5 | 120 | 309 | 260 | 379 | 210 | 56 | 0 | 0 | 1339 |
| 1989-90 | 0 | 0 | 0 | 47 | 160 | 637 | 264 | 177 | 122 | 34 | 0 | 0 | 1441 |
| 1990-91 | 0 | 0 | 0 | 61 | 129 | 395 | 448 | 222 | 115 | 8 | 0 | 0 | 1378 |
| 1991-92 | 0 | 0 | 0 | 15 | 289 | 303 | 428 | 197 | 95 | 37 | 4 | 0 | 1368 |
| 1992-93 | 0 | 0 | 0 | 1 | 270 | 268 | 351 | 235 | 157 | 62 | 0 | 0 | 1344 |
| 1993-94 | 0 | 0 | 0 | 76 | 269 | 343 | 391 | 291 | 136 | 40 | 1 | 0 | 1547 |
| 1994-95 | 0 | 0 | 0 | 21 | 75 | 268 | 347 | 192 | 155 | 28 | 0 | 0 | 1086 |
| 1995-96 | 0 | 0 | 4 | 8 | 145 | 303 | 408 | 267 | 259 | 54 | 0 | 0 | 1448 |
| 1996-97 | 0 | 0 | 1 | 29 | 159 | 280 | 458 | 287 | 77 | 70 | 0 | 0 | 1361 |
| 1997-98 | 0 | 0 | 0 | 58 | 282 | 454 | 254 | 276 | 212 | 57 | 0 | 0 | 1593 |
| 1998-99 | 0 | 0 | 0 | 8 | 92 | 349 | 276 | 153 | 106 | 25 | 0 | 0 | 1009 |
| 1999-00 | 0 | 0 | 0 | 51 | 114 | 355 | 298 | 152 | 72 | 50 | 0 | 0 | 1092 |
| 2000-01 | 0 | 0 | 5 | 51 | 267 | 532 | 480 | 207 | 262 | 19 | 0 | 0 | 1823 |
| 2001-02 | 0 | 0 | 0 | 57 | 111 | 311 | 343 | 395 | 181 | 11 | 1 | 0 | 1410 |
| 2002-03 | 0 | 0 | 0 | 13 | 201 | 332 | 461 | 314 | 135 | 24 | 0 | 0 | 1480 |
| 2003- | 0 | 0 | 0 | 12 | 105 | 342 | | | | | | | |

WBAN : 12960

COOLING DEGREE DAYS (base 65°F) 2003 HOUSTON, TX (IAH)

| YEAR | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | ANNUAL |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------|
| 1974 | 24 | 33 | 158 | 132 | 374 | 454 | 558 | 519 | 295 | 196 | 60 | 18 | 2821 |
| 1975 | 47 | 8 | 61 | 155 | 342 | 455 | 514 | 505 | 303 | 174 | 68 | 24 | 2656 |
| 1976 | 5 | 43 | 75 | 110 | 182 | 408 | 490 | 520 | 341 | 42 | 9 | 0 | 2225 |
| 1977 | 0 | 5 | 44 | 91 | 302 | 487 | 547 | 565 | 456 | 173 | 58 | 23 | 2751 |
| 1978 | 10 | 5 | 19 | 120 | 369 | 471 | 584 | 568 | 437 | 150 | 108 | 25 | 2866 |
| 1979 | 7 | 13 | 62 | 142 | 261 | 454 | 552 | 519 | 324 | 211 | 26 | 6 | 2577 |
| 1980 | 4 | 31 | 49 | 86 | 388 | 610 | 705 | 677 | 553 | 162 | 52 | 26 | 3343 |
| 1981 | 1 | 28 | 23 | 295 | 330 | 538 | 606 | 609 | 413 | 285 | 71 | 7 | 3206 |
| 1982 | 39 | 11 | 147 | 170 | 329 | 547 | 641 | 599 | 437 | 199 | 60 | 40 | 3219 |
| 1983 | 0 | 0 | 18 | 76 | 268 | 427 | 541 | 554 | 362 | 196 | 87 | 18 | 2547 |
| 1984 | 0 | 13 | 64 | 135 | 315 | 415 | 527 | 562 | 384 | 302 | 62 | 100 | 2879 |
| 1985 | 0 | 6 | 87 | 180 | 335 | 487 | 521 | 602 | 456 | 257 | 143 | 9 | 3083 |
| 1986 | 4 | 71 | 52 | 220 | 341 | 518 | 654 | 553 | 510 | 157 | 92 | 4 | 3176 |
| 1987 | 4 | 4 | 14 | 154 | 383 | 497 | 580 | 661 | 423 | 137 | 54 | 15 | 2926 |
| 1988 | 7 | 20 | 65 | 121 | 274 | 472 | 609 | 637 | 478 | 229 | 144 | 20 | 3076 |
| 1989 | 33 | 44 | 105 | 194 | 405 | 454 | 547 | 526 | 363 | 218 | 105 | 5 | 2999 |
| 1990 | 20 | 19 | 65 | 174 | 413 | 603 | 536 | 630 | 456 | 181 | 87 | 47 | 3231 |
| 1991 | 0 | 14 | 76 | 231 | 408 | 514 | 593 | 565 | 376 | 248 | 47 | 37 | 3109 |
| 1992 | 0 | 17 | 74 | 155 | 281 | 508 | 584 | 476 | 437 | 210 | 32 | 20 | 2794 |
| 1993 | 4 | 10 | 42 | 92 | 267 | 506 | 652 | 674 | 463 | 221 | 31 | 27 | 2989 |
| 1994 | 15 | 25 | 74 | 186 | 347 | 561 | 644 | 569 | 406 | 243 | 102 | 33 | 3205 |
| 1995 | 24 | 22 | 98 | 142 | 406 | 476 | 622 | 622 | 508 | 183 | 42 | 65 | 3210 |
| 1996 | 15 | 89 | 53 | 192 | 513 | 475 | 587 | 532 | 384 | 205 | 78 | 51 | 3174 |
| 1997 | 23 | 21 | 94 | 52 | 274 | 432 | 567 | 570 | 426 | 187 | 9 | 0 | 2655 |
| 1998 | 16 | 6 | 64 | 90 | 429 | 621 | 678 | 616 | 524 | 250 | 75 | 50 | 3419 |
| 1999 | 37 | 60 | 73 | 270 | 365 | 515 | 568 | 685 | 395 | 182 | 35 | 11 | 3196 |
| 2000 | 41 | 64 | 126 | 143 | 413 | 495 | 632 | 622 | 443 | 242 | 51 | 0 | 3272 |
| 2001 | 2 | 51 | 3 | 230 | 344 | 474 | 585 | 581 | 370 | 123 | 70 | 40 | 2873 |
| 2002 | 27 | 2 | 72 | 272 | 380 | 507 | 611 | 590 | 449 | 223 | 24 | 17 | 3174 |
| 2003 | 6 | 6 | 31 | 196 | 495 | 538 | 575 | 617 | 387 | 228 | 111 | 3 | 3193 |

SNOWFALL (inches) 2003 HOUSTON, TX (IAH)

| 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 | 0.0 | T | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | T |
| 1975-76 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 1976-77 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | T | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | T |
| 1977-78 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.4 |
| 1978-79 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | T | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | T |
| 1979-80 | 0.0 | 0.0 | 0.0 | 0.0 | T | 0.0 | 0.0 | 1.4 | 0.0 | 0.0 | 0.0 | 0.0 | 1.4 |
| 1980-81 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | T | T | 0.0 | 0.0 | 0.0 | 0.0 | T |
| 1981-82 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | T | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | T |
| 1982-83 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 1983-84 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 1984-85 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.4 | 0.3 | 0.0 | 0.0 | 0.0 | 0.0 | 1.7 |
| 1985-86 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 1986-87 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 1987-88 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | T | 0.0 | 0.0 | 0.0 | 0.0 | T |
| 1988-89 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | T | 0.0 | 0.0 | 0.0 | 0.0 | T |
| 1989-90 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | T | 1.7 |
| 1990-91 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 1991-92 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | T | 0.0 | T | 0.0 | T |
| 1992-93 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | T | T | 0.0 | T |
| 1993-94 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 |
| 1994-95 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | T | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | T |
| 1995-96 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | T | 0.0 | 0.0 | 0.0 | T | T |
| 1996-97 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | T | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | T |
| 1997-98 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 1998-99 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | T | 0.0 | 0.0 | 0.0 | T |
| 1999-00 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | T | 0.0 | T |
| 2000-01 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | T | 0.0 | 0.0 | 0.0 | T |
| 2001-02 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 2002-03 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 2003- | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| POR= 68 YRS | 0.0 | 0.0 | 0.0 | 0.0 | T | 0.0 | 0.2 | 0.2 | 0.0 | T | T | T | 0.4 |

WBAN : 12960

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 (1971 - 2000). 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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2003
HOUSTON,
TEXAS (IAH)

Houston, the largest city in Texas, is located in the flat Coastal Plains, about 50 miles from the Gulf of Mexico and about 25 miles from Galveston Bay. The climate is predominantly marine. The terrain includes numerous small streams and bayous which, together with the nearness to Galveston Bay, favor the development of both ground and advective fogs. Prevailing winds are from the southeast and south, except in January, when frequent passages of high pressure areas bring invasions of polar air and prevailing northerly winds.

Temperatures are moderated by the influence of winds from the Gulf, which result in mild winters. Another effect of the nearness of the Gulf is abundant rainfall, except for rare extended dry periods. Polar air penetrates the area frequently enough to provide variability in the weather.

Records of sky cover for daylight hours indicate about one-fourth of the days per year as clear, with a high number of clear days in October and November. Cloudy days are relatively frequent from December to May and partly cloudy days are the more frequent for June through September. Sunshine averages nearly 60 percent of the possible amount for the year ranging from 42 percent in January to 67 percent in June.

Heavy fog occurs on an average of 16 days a year and light fog occurs about 62 days a year in the city. The frequency of heavy fog is considerably higher at William P. Hobby Airport and at Intercontinental Airport.

Destructive windstorms are fairly infrequent, but both thundersqualls and tropical storms occasionally pass through the area.

STATION LOCATION

HOUSTON, 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 THERMOMETERS | PSYCHROMETER | SUNSHINE SWITCH | TIPPING BUCKET | RAIN GAUGE | WINDHOLE GAUGE | 8 INCH RAIN GAUGE | HYGROMETER | | |
| *NOTES: | | | | | | | | | | | | | | | | | |
| <u>AIRPORT</u> | | | | | | | | | | | | | | | | | |
| Trailer, NW corner of Houston Intercontinental AP | 6/01/69 | 8/15/72 | 23 mi. NNW | 29°59' | 95°22' | 96 | 20 | 5 | 5 | | | | c4 | 3 | b4 | b. Commissioned 11/14/69. c. Commissioned 1/1/70. | |
| Qualitron Building Intercontinental AP 17795 J.F. Kennedy Blvd | 8/15/72 | 06/01/96 | 1.6 mi. SE | 29°58' | 95°21' | 96 | d20 | | | 46 | e45 | 45 | 45 | d4 f5 | | d. Same site as prior to 8/15/72. e. Added 10/15/74. f. Type change and move 1250 ft. NNW 7/28/82. | |
| Intercontinental Airport | 06/01/96 | Present | NA | 30°00' | 95°22' | g118 | | | | | | | | | S | ASOS Commissioned 06/01/96 g. Ground elevation. | |

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* NOTES: For previous station history see previous editions.