



JUNE 2002

LOCAL CLIMATOLOGICAL DATA

NOAA, National Climatic Data Center

HOUSTON, TX

INTERCONTINENTAL AIRPORT (IAH)
 Lat: 29°59' N Long: 95°21' W Elev (Ground): 118 Feet
 Time Zone: CENTRAL WBAN: 12960 ISSN #:0198-5094

| DATE | TEMPERATURE °F | | | | | | DEG DAYS BASE 65° | | WEATHER | SNOW/ICE ON GND(IN) | | PRECIPITATION (INCHES) | | PRESSURE (INCHES OF HG) | | WIND SPEED = MPH DIR = TENS OF DEGREES | | | | | | | | DATE |
|------|----------------|---------|---------|-----------------|----------------|------------------|-------------------|---------|------------------|---------------------|----------|------------------------|----------|-------------------------|-------------------|--|---------|---------------|---------|----|-------|----|----|------|
| | MAXIMUM | MINIMUM | AVERAGE | DEP FROM NORMAL | AVERAGE DEW PT | AVERAGE WET BULB | HEATING | COOLING | | 0600 LST | 1200 LST | 2400 LST | 2400 LST | AVERAGE STATION | AVERAGE SEA LEVEL | RESULTANT SPEED | RES DIR | AVERAGE SPEED | MAXIMUM | | | | | |
| | | | | | | | | | | | | | | | | | | | 5-SEC | | 2-MIN | | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | |
| 01 | 88 | 70 | 79 | 0 | 71 | 73 | 0 | 14 | BR | 0 | | 0.0 | 0.00 | 29.78 | 29.89 | 3.7 | 11 | 5.1 | 18 | 12 | 15 | 13 | 01 | |
| 02 | 89 | 70 | 80 | 0 | 71 | 74 | 0 | 15 | MIFG | 0 | | 0.0 | 0.00 | 29.77 | 29.88 | 7.5 | 14 | 8.0 | 23 | 14 | 22 | 14 | 02 | |
| 03 | 90 | 74 | 82 | 2 | 73 | 76 | 0 | 17 | | 0 | | 0.0 | 0.00 | 29.75 | 29.86 | 8.7 | 14 | 9.0 | 24 | 15 | 21 | 13 | 03 | |
| 04 | 93 | 75 | 84 | 4 | 74 | 76 | 0 | 19 | RA HZ | 0 | | 0.0 | T | 29.77 | 29.88 | 8.2 | 14 | 8.7 | 28 | 12 | 24 | 13 | 04 | |
| 05 | 94 | 73 | 84 | 4 | 72 | 75 | 0 | 19 | | 0 | | 0.0 | 0.00 | 29.80 | 29.90 | 3.5 | 06 | 5.0 | 18 | 07 | 15 | 13 | 05 | |
| 06 | 95 | 74 | 85 | 5 | 72 | 76 | 0 | 20 | RA BR | 0 | | 0.0 | T | 29.79 | 29.90 | 2.7 | 05 | 4.6 | 21 | 09 | 17 | 15 | 06 | |
| 07 | 94 | 76 | 85 | 5 | 75 | 77 | 0 | 20 | | 0 | | 0.0 | 0.00 | 29.80 | 29.91 | 5.3 | 10 | 6.6 | 28 | 13 | 24 | 12 | 07 | |
| 08 | 93 | 76 | 85 | 5 | 74 | 77 | 0 | 20 | BR | 0 | | 0.0 | 0.00 | 29.81 | 29.92 | 6.8 | 14 | 8.1 | 25 | 11 | 20 | 13 | 08 | |
| 09 | 93 | 78 | 86 | 6 | 75 | 77 | 0 | 21 | TS TSRA RA | 0 | | 0.0 | 0.32 | 29.79 | 29.90 | 8.2 | 15 | 8.7 | 26 | 15 | 22 | 15 | 09 | |
| 10 | 92 | 77 | 85 | 4 | 74 | 77 | 0 | 20 | | 0 | | 0.0 | 0.00 | 29.76 | 29.87 | 8.8 | 14 | 9.2 | 24 | 12 | 21 | 14 | 10 | |
| 11 | 92 | 76 | 84 | 3 | 74 | 77 | 0 | 19 | | 0 | | 0.0 | 0.00 | 29.78 | 29.89 | 8.4 | 14 | 9.0 | 30 | 14 | 25 | 15 | 11 | |
| 12 | 92 | 75 | 84 | 3 | 71 | 75 | 0 | 19 | | 0 | | 0.0 | 0.00 | 29.79 | 29.89 | 5.0 | 13 | 6.2 | 22 | 12 | 15 | 13 | 12 | |
| 13 | 93 | 72 | 83 | 2 | 71 | 75 | 0 | 18 | | 0 | | 0.0 | 0.00 | 29.76 | 29.87 | 5.0 | 15 | 6.4 | 21 | 15 | 15 | 13 | 13 | |
| 14 | 97* | 75 | 86* | 5 | 70 | 75 | 0 | 21 | | 0 | | 0.0 | 0.00 | 29.80 | 29.91 | 6.6 | 35 | 7.6 | 23 | 01 | 18 | 01 | 14 | |
| 15 | 96 | 69 | 83 | 2 | 61 | 69 | 0 | 18 | | 0 | | 0.0 | 0.00 | 29.82 | 29.93 | 1.6 | 07 | 5.8 | 17 | 17 | 14 | 17 | 15 | |
| 16 | 89 | 68* | 79 | -2 | 71 | 74 | 0 | 14 | TS TSRA RA FG BR | 0 | | 0.0 | 1.23 | 29.73 | 29.84 | 3.7 | 30 | 8.7 | 45 | 34 | 41* | 33 | 16 | |
| 17 | 87 | 69 | 78 | -4 | 68 | 71 | 0 | 13 | | 0 | | 0.0 | 0.00 | 29.78 | 29.89 | 5.5 | 01 | 6.2 | 18 | 02 | 16 | 03 | 17 | |
| 18 | 91 | 70 | 81 | -1 | 69 | 73 | 0 | 16 | BR | 0 | | 0.0 | 0.00 | 29.77 | 29.88 | 5.2 | 11 | 6.9 | 18 | 09 | 13 | 13 | 18 | |
| 19 | 91 | 74 | 83 | 1 | 74 | 76 | 0 | 18 | TS TSRA RA | 0 | | 0.0 | 0.11 | 29.86 | 29.97 | 6.8 | 13 | 7.4 | 28 | 13 | 24 | 12 | 19 | |
| 20 | 86 | 76 | 81 | -1 | 76 | 77 | 0 | 16 | TS TSRA RA | 0 | | 0.0 | T | 30.01 | 30.12 | 5.9 | 11 | 6.5 | 21 | 09 | 18 | 11 | 20 | |
| 21 | 92 | 73 | 83 | 1 | 74 | 76 | 0 | 18 | TS TSRA RA BR | 0 | | 0.0 | 0.04 | 30.04 | 30.15 | 3.1 | 08 | 5.9 | 24 | 07 | 20 | 07 | 21 | |
| 22 | 92 | 71 | 82 | 0 | 66 | 72 | 0 | 17 | MIFG BR | 0 | | 0.0 | 0.00 | 29.99 | 30.09 | 4.1 | 05 | 6.1 | 20 | 04 | 17 | 05 | 22 | |
| 23 | 91 | 70 | 81 | -1 | 67 | 72 | 0 | 16 | | 0 | | 0.0 | 0.00 | 29.90 | 30.01 | 3.5 | 04 | 6.2 | 18 | 10 | 14 | 08 | 23 | |
| 24 | 87 | 73 | 80 | -2 | 72 | 74 | 0 | 15 | TS TSRA RA BR HZ | 0 | | 0.0 | 0.16 | 29.87 | 29.98 | 1.7 | 10 | 3.9 | 23 | 27 | 17 | 24 | 24 | |
| 25 | 85 | 71 | 78 | -4 | 74 | 75 | 0 | 13 | TS TSRA RA BR | 0 | | 0.0 | 0.94 | 29.88 | 29.99 | 3.2 | 11 | 5.0 | 22 | 11 | 17 | 12 | 25 | |
| 26 | 85 | 73 | 79 | -3 | 74 | 76 | 0 | 14 | TS TSRA RA | 0 | | 0.0 | 0.14 | 29.86 | 29.97 | 3.3 | 15 | 4.6 | 18 | 14 | 16 | 15 | 26 | |
| 27 | 89 | 75 | 82 | -1 | 74 | 76 | 0 | 17 | TS RA | 0 | | 0.0 | 0.02 | 29.79 | 29.90 | 3.8 | 16 | 5.7 | 16 | 22 | 13 | 17 | 27 | |
| 28 | 79 | 73 | 76* | -7 | 75 | 75 | 0 | 11 | RA BR | 0 | | 0.0 | 0.11 | 29.84 | 29.95 | 5.2 | 13 | 5.9 | 17 | 11 | 15 | 12 | 28 | |
| 29 | 81 | 73 | 77 | -6 | 75 | 75 | 0 | 12 | TS TSRA RA BR | 0 | | 0.0 | 1.46 | 29.93 | 30.04 | 5.6 | 11 | 6.9 | 47* | 16 | 33 | 16 | 29 | |
| 30 | 87 | 76 | 82 | -1 | 78 | 79 | 0 | 17 | RA | 0 | | 0.0 | 0.01 | 29.97 | 30.08 | 9.4 | 12 | 9.6 | 23 | 13 | 20 | 13 | 30 | |

JUNE 2002
HOUSTON, TX

| | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------|------|------|-----|-----------------------------------|------|-----|------|---|--|-------|--|-------------------------------------|-------|-----|----|----------------------|---------------------|--|--|--------------------------------|--|--|--|
| 90.1 | 73.2 | 81.7 | ■ ■ | 72.2 | 75.0 | 0.0 | 16.9 | < MONTHLY AVERAGES TOTALS-> | | 0.0 | 4.54 | 29.83 | 29.94 | 0.7 | 18 | 6.8 | <- MONTHLY AVERAGES | | | | | | |
| - .6 | 1.4 | 0.4 | ■ ■ | <-----DEPARTURE FROM NORMAL-----> | | | | | | - .81 | SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3 | | | | | | | | | | | | |
| DEGREE DAYS | | | | | | | | GREATEST 24-HR PRECIPITATION: 1.46 DATE :29 | | | | SEA LEVEL PRESSURE | | | | DATE TIME | | | | | | | |
| MONTHLY TOTAL DEPARTURE | | | | | | | | SEASON TO DATE TOTAL DEPARTURE | | | | GREATEST 24-HR SNOWFALL: 0.0 DATE : | | | | MAXIMUM MINIMUM | | | | : 30.21 21 0753 | | | |
| HEATING: 0 0 1410 -189 | | | | | | | | NUMBER OF DAYS WITH → | | | | MAXIMUM TEMP ≥ 90: 18 | | | | MINIMUM TEMP ≤ 32: 0 | | | | PRECIPITATION ≥ 0.01 INCH : 11 | | | |
| COOLING: 507 22 1260 201 | | | | | | | | | | | | MAXIMUM TEMP ≤ 32 : 0 | | | | MINIMUM TEMP ≤ 0 : 0 | | | | PRECIPITATION ≥ 0.10 INCH : 8 | | | |
| | | | | | | | | | | | | THUNDERSTORMS : 10 | | | | HEAVY FOG : 0 | | | | SNOWFALL ≥ 1.0 INCH : 0 | | | |

HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

HOUSTON, TX

JUNE 2002

IAH

WBAN # 12960

| DATE | FOR HOUR (LST) ENDING AT | | | | | | | | | | | | DATE | FOR HOUR (LST) ENDING AT | | | | | | | | | | | | DATE | Sum if Different (See Note) | 2400 LST | |
|------|--------------------------|---|------|---|---|------|------|------|------|------|------|----|------|--------------------------|------|------|------|----|----|----|------|----|----|----|----|------|-----------------------------|----------|--------|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | | | Water | Equiv. |
| 01 | | | | | | | | | | | | | 01 | | | | | | | | | | | | 01 | | 0.00 | | |
| 02 | | | | | | | | | | | | | 02 | | | | | | | | | | | | 02 | | 0.00 | | |
| 03 | | | | | | | | | | | | | 03 | | | | | | | | | | | | 03 | | 0.00 | | |
| 04 | | | | | | | | | | | | | 04 | T | | | | | | | | | | | 04 | | 0.00 | | |
| 05 | | | | | | | | | | | | | 05 | | | | | | | | | | | | 05 | | T | | |
| 06 | | | | | | | | | | | | | 06 | | | | T | | | | | | | | 06 | | T | | |
| 07 | | | | | | | | | | | | | 07 | | | | | T | | | | | | | 07 | | 0.00 | | |
| 08 | | | | | | | | | | | | | 08 | | | | | | | | | | | | 08 | | 0.00 | | |
| 09 | | | | | | | | | | | | | 09 | 0.01 | 0.08 | 0.08 | 0.15 | | | | | | | | 09 | | 0.32 | | |
| 10 | | | | | | | | | | | | | 10 | | | | | | | | | | | | 10 | | 0.00 | | |
| 11 | | | | | | | | | | | | | 11 | | | | | | | | | | | | 11 | | 0.00 | | |
| 12 | | | | | | | | | | | | | 12 | | | | | | | | | | | | 12 | | 0.00 | | |
| 13 | | | | | | | | | | | | | 13 | | | | | | | | | | | | 13 | | 0.00 | | |
| 14 | | | | | | | | | | | | | 14 | | | | | | | | | | | | 14 | | 0.00 | | |
| 15 | | | | | | | | | | | | | 15 | | | | | | | | | | | | 15 | | 0.00 | | |
| 16 | | | | | | 1.00 | 0.22 | 0.01 | | | | | 16 | | | | | | | | | | | | 16 | | 1.23 | | |
| 17 | | | | | | | | | | | | | 17 | | | | | | | | | | | | 17 | | 0.00 | | |
| 18 | | | | | | | | | | | | | 18 | | | | | | | | | | | | 18 | | 0.00 | | |
| 19 | | | | | | | | | | | | | 19 | 0.09 | 0.01 | 0.01 | T | | | | | | | | 19 | | 0.11 | | |
| 20 | | | | | | | | | | | | | 20 | T | T | | | | | | | | | | 20 | | T | | |
| 21 | | | 0.01 | | | | | | | | | | 21 | | | | | | | | 0.03 | | T | | 21 | | 0.04 | | |
| 22 | | | | | | | | | | | | | 22 | | | | | | | | | | | | 22 | | 0.00 | | |
| 23 | | | | | | | | | | | | | 23 | | | | | | | | | | | | 23 | | 0.00 | | |
| 24 | | | | | | | | | | | | | 24 | | | | | | | | | | | | 24 | | 0.16 | | |
| 25 | | | | | | | | | | | | | 25 | 0.31 | 0.16 | | T | | | | | | | | 25 | | 0.94 | | |
| 26 | | | | | | | | | | | | | 26 | T | T | 0.01 | | | | | | | | | 26 | | 0.14 | | |
| 27 | | | | | T | 0.01 | 0.01 | | | | | | 27 | | | | | | | | | | | | 27 | | 0.02 | | |
| 28 | | | | | | | | | | | | | 28 | 0.06 | 0.01 | 0.03 | | | | | | | | | 28 | | 0.11 | | |
| 29 | | | 0.01 | | | | 0.44 | 0.30 | 0.04 | 0.05 | 0.01 | | 29 | 0.36 | 0.10 | 0.02 | 0.13 | | | | | | | 29 | | 1.46 | | | |
| 30 | | | | | | | | T | | | | | 30 | T | | T | 0.01 | | | | | | | 30 | | 0.01 | | | |

MAXIMUM SHORT DURATION PRECIPITATION (See Note)

| Time Period (Minutes) | 5 | 10 | 15 | 20 | 30 | 45 | 60 | 80 | 100 | 120 | 150 | 180 |
|------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Precipitation (Inches) | .28 | .53 | .73 | .80 | .89 | .96 | 1.03 | 1.14 | 1.20 | 1.23 | 1.23 | 1.23 |
| Ending Date | 29 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 |
| Ending Time (Hour/Min) | 0646 | 0515 | 0518 | 0519 | 0529 | 0542 | 0559 | 0619 | 0637 | 0655 | 0655 | 0655 |

Date and time are not entered for TRACE amounts.

Note : The sum of the hourly totals is given when it differs from the daily total. NWS does not edit ASOS hourly values but may edit daily and monthly totals. Hourly, daily, and monthly totals are printed as reported by the ASOS site.

REFERENCE NOTES & SUPPLEMENTAL SUMMARIES

* = Extreme for the month (last occurrence if more than one)

T = Trace precipitation amount

+ = also occurs on earlier date

FG+ = Heavy fog, visibility .25 miles or less

BLANK entries denote missing or unreported data

Resultant wind is the vector sum of the wind speeds and directions divided by the number of observations.

Wind direction is recorded in tens of degrees (2 digits) clockwise from true north. '00' = calm, 'VR' = variable.

Precipitation is for the 24-hour period ending at the time indicated in the column heading.

Water Equivalent of snow on the ground is reported only when the depth is 2 or more inches.

NORMALS ARE FOR THE YEARS 1971–2000

WEATHER NOTATIONS

| QUALIFIER | WEATHER PHENOMENA | | |
|--------------------|-----------------------------------|--------------------|------------------------------------|
| | PRECIPITATION | OBSCURATION | OTHER |
| BC Patches | DZ Drizzle | BR Mist | DS Duststorm |
| BL Blowing | GR Hail | DU Widespread Dust | FC Funnel Cloud |
| DR Low Drifting | GS Small Hail and/or Snow Pellets | FG Fog | +FC Tornado Waterspout |
| FZ Freezing | IC Ice Crystals | FU Smoke | PO Well-Developed Dust/Sand Whirls |
| MI Shallow | PL Ice Pellets | HZ Haze | SQ Squalls |
| PR Partial | RA Rain | PY Spray | SS Sandstorm |
| SH Shower(s) | SG Snow Grains | SA Sand | GL Glaze |
| TS Thunderstorm | SN Snow | VA Volcanic Ash | |
| VC In the Vicinity | UP Unknown Precipitation | | |

Intensity (as indicated on pages 4 to 6):
'+' = Heavy ' ' = Moderate '-' = Light

HOUSTON, TX JUNE 2002

Ceilometer (30-second) data are used to derive cloudiness at or below 12,000 feet. This cloudiness is the mean cloud cover detected during sunrise to sunset (SR–SS), or midnight to midnight (MN–MN).

Satellite data are used to derive cloudiness above 12,000 feet. Effective Cloud Amount is based on the cloud cover and the transparency of the clouds within the satellite field of view (approx. 31x31 miles).

Sky Condition is based on the sum (not to exceed 8) of the sunrise to sunset cloud cover below and above 12,000 feet. Both ceilometer and satellite data must be present to compute Sky Condition. Clear = 0–2 oktas, Partly Cloudy = 3–6 oktas, Cloudy = 7–8 oktas.

A Heating (Cooling) Degree Day is the difference between the average daily temperature and 65 degrees F. The HDD season begins July 1, the CDD season begins January 1.

Dew Point is the temperature to which the air must be cooled to achieve 100% relative humidity. Wet Bulb is the temperature the air would have if cooled to saturation at constant pressure by evaporation of water into it.

Snow Depth, Snowfall, and Sunshine data may come from nearby sites that the National Weather Service deems Climatologically representative of this site.

ADDITIONAL NOTES:

| DATE | SUNSHINE | | CLOUDINESS (OKTAS) | | | | VISIBILITY (MILES) | | RESERVED |
|--|---------------|------------------|--------------------|-----------|------------|-----------|--------------------|---------|----------|
| | TOTAL MINUTES | PERCENT POSSIBLE | SR–SS | | MN–MN | | MINIMUM | MAXIMUM | |
| | | | CEILOMETER | SATELLITE | CEILOMETER | SATELLITE | | | |
| 01 | | | | | | | 4.00 | 10.00 | |
| 02 | | | | | | | 7.00 | 10.00 | |
| 03 | | | | | | | 10.00 | 10.00 | |
| 04 | | | | | | | 10.00 | 10.00 | |
| 05 | | | | | | | 7.00 | 10.00 | |
| 06 | | | | | | | 6.00 | 10.00 | |
| 07 | | | | | | | 8.00 | 10.00 | |
| 08 | | | | | | | 5.00 | 10.00 | |
| 09 | | | | | | | 7.00 | 10.00 | |
| 10 | | | | | | | 10.00 | 10.00 | |
| 11 | | | | | | | 9.00 | 10.00 | |
| 12 | | | | | | | 7.00 | 10.00 | |
| 13 | | | | | | | 8.00 | 10.00 | |
| 14 | | | | | | | 10.00 | 10.00 | |
| 15 | | | | | | | 10.00 | 10.00 | |
| 16 | | | | | | | .50 | 10.00 | |
| 17 | | | | | | | 7.00 | 10.00 | |
| 18 | | | | | | | 6.00 | 10.00 | |
| 19 | | | | | | | 4.00 | 10.00 | |
| 20 | | | | | | | 10.00 | 10.00 | |
| 21 | | | | | | | 6.00 | 10.00 | |
| 22 | | | | | | | 6.00 | 10.00 | |
| 23 | | | | | | | 7.00 | 10.00 | |
| 24 | | | | | | | 3.00 | 10.00 | |
| 25 | | | | | | | 1.50 | 10.00 | |
| 26 | | | | | | | 10.00 | 10.00 | |
| 27 | | | | | | | 10.00 | 10.00 | |
| 28 | | | | | | | 5.00 | 10.00 | |
| 29 | | | | | | | .50 | 10.00 | |
| 30 | | | | | | | 8.00 | 10.00 | |
| MONTHLY AVGS | | | | | | | 7.18 | 10.00 | |
| SUNSHINE (MINUTES) | | | | | | | | | |
| Total: Possible: Percent Possible: | | | | | | | | | |
| NUMBER OF DAYS WITH: | | | | | | | | | |
| SKY CONDITION | | | | | | | | | |
| CLR PTLY CLDY CLOUDY MISSING 30 | | | | | | | | | |
| MINIMUM VISIBILITY (MILES) | | | | | | | | | |
| <=0.25 <=3.0 >=7.0 0 2 20 | | | | | | | | | |

OBSERVATIONS AT 3-HOURLY INTERVALS

HOUSTON, TX

JUNE 2002

IAH

WBAN # 12960

| HOUR (LST) | SATELLITE | | WEATHER | TEMPERATURE °F | | | | WIND | | PRESSURE (INCHES, HG) | | HOUR (LST) | SATELLITE | | WEATHER | TEMPERATURE °F | | | | WIND | | PRESSURE (INCHES, HG) | | | | | |
|---------------|------------------------|---------------------|---------|--------------------|-----------|----------|-------------------------|--------------|-----------------------|-----------------------|-----------|---------------|------------------------|---------------------|---------|--------------------|-----------|----------|-------------------------|--------------|-----------------------|-----------------------|-----------|----|----|-------|-------|
| | SKY COVER | CEILING 100'S OF FT | | DRY BULB | DEW POINT | WET BULB | RELATIVE HUMIDITY (PCT) | SPEED (MPH) | DIRECTION TENS OF DEG | STATION | SEA LEVEL | | SKY COVER | CEILING 100'S OF FT | | DRY BULB | DEW POINT | WET BULB | RELATIVE HUMIDITY (PCT) | SPEED (MPH) | DIRECTION TENS OF DEG | STATION | SEA LEVEL | | | | |
| | OBSERVATION TIME (LST) | EFF CLD AMT Oktas | | VISIBILITY (MILES) | | | | | | | | | OBSERVATION TIME (LST) | EFF CLD AMT Oktas | | VISIBILITY (MILES) | | | | | | | | | | | |
| SUNRISE: 0521 | | | | JUN 01 | | | | SUNSET: 1917 | | | | SUNRISE: 0520 | | | | JUN 07 | | | | SUNSET: 1920 | | | | | | | |
| 03 | SCT | NC | | 10.00 | BR | 71 | 71 | 71 | 100 | 5 | 04 | 29.77 | 29.88 | 03 | BKN | 250 | | 10.00 | | 77 | 73 | 74 | 88 | 0 | 00 | 29.78 | 29.89 |
| 06 | FEW | NC | | 5.00 | | 70 | 70 | 70 | 100 | 0 | 00 | 29.80 | 29.91 | 06 | SCT | NC | | 9.00 | | 77 | 73 | 74 | 88 | 3 | 03 | 29.80 | 29.91 |
| 09 | BKN | 016 | | 10.00 | | 79 | 73 | 75 | 82 | 8 | 09 | 29.83 | 29.94 | 09 | SCT | NC | | 10.00 | | 84 | 72 | 76 | 67 | 10 | 11 | 29.84 | 29.95 |
| 12 | SCT | NC | | 10.00 | | 84 | 70 | 74 | 63 | 5 | VR | 29.81 | 29.93 | 12 | BKN | 080 | | 10.00 | | 89 | 74 | 78 | 61 | 7 | VR | 29.83 | 29.94 |
| 15 | SCT | NC | | 10.00 | | 86 | 69 | 74 | 57 | 8 | 13 | 29.75 | 29.86 | 15 | BKN | 060 | | 10.00 | | 85 | 74 | 77 | 70 | 21 | 12 | 29.78 | 29.90 |
| 18 | SCT | NC | | 10.00 | | 84 | 73 | 76 | 70 | 10 | 14 | 29.74 | 29.85 | 18 | BKN | 120 | | 10.00 | | 85 | 75 | 78 | 72 | 10 | 09 | 29.77 | 29.88 |
| 21 | SCT | NC | | 10.00 | | 78 | 72 | 74 | 82 | 0 | 00 | 29.76 | 29.88 | 21 | SCT | NC | | 10.00 | | 81 | 78 | 79 | 91 | 5 | 12 | 29.80 | 29.91 |
| 24 | CLR | NC | | 10.00 | | 74 | 71 | 72 | 91 | 0 | 00 | 29.77 | 29.89 | 24 | SCT | NC | | 10.00 | | 79 | 77 | 78 | 94 | 3 | 17 | 29.80 | 29.91 |
| SUNRISE: 0521 | | | | JUN 02 | | | | SUNSET: 1918 | | | | SUNRISE: 0520 | | | | JUN 08 | | | | SUNSET: 1921 | | | | | | | |
| 03 | SCT | NC | | 10.00 | | 70 | 70 | 70 | 100 | 0 | 00 | 29.78 | 29.89 | 03 | BKN | 250 | | 10.00 | | 76 | 76 | 76 | 100 | 0 | 00 | 29.80 | 29.91 |
| 06 | FEW | NC | | 10.00 | MIFG | 70 | 70 | 70 | 100 | 3 | 01 | 29.80 | 29.92 | 06 | SCT | NC | | 5.00 | BR | 77 | 76 | 76 | 96 | 0 | 00 | 29.83 | 29.94 |
| 09 | BKN | 018 | | 10.00 | | 79 | 73 | 75 | 82 | 5 | 16 | 29.81 | 29.93 | 09 | SCT | NC | | 10.00 | | 84 | 74 | 77 | 72 | 8 | 14 | 29.85 | 29.96 |
| 12 | SCT | NC | | 10.00 | | 87 | 68 | 74 | 53 | 12 | 14 | 29.78 | 29.89 | 12 | SCT | NC | | 10.00 | | 91 | 67 | 75 | 45 | 6 | VR | 29.83 | 29.94 |
| 15 | FEW | NC | | 10.00 | | 88 | 66 | 73 | 48 | 16 | 12 | 29.74 | 29.85 | 15 | SCT | NC | | 10.00 | | 90 | 72 | 77 | 56 | 14 | 13 | 29.79 | 29.90 |
| 18 | FEW | NC | | 10.00 | | 84 | 71 | 75 | 65 | 14 | 12 | 29.71 | 29.83 | 18 | SCT | NC | | 10.00 | | 88 | 74 | 78 | 63 | 17 | 12 | 29.77 | 29.88 |
| 21 | FEW | NC | | 10.00 | | 78 | 73 | 75 | 85 | 9 | 16 | 29.73 | 29.85 | 21 | SCT | NC | | 10.00 | | 82 | 74 | 76 | 77 | 8 | 16 | 29.79 | 29.90 |
| 24 | SCT | NC | | 10.00 | | 76 | 74 | 75 | 94 | 5 | 16 | 29.73 | 29.84 | 24 | SCT | NC | | 10.00 | | 81 | 75 | 77 | 82 | 7 | 15 | 29.84 | 29.95 |
| SUNRISE: 0521 | | | | JUN 03 | | | | SUNSET: 1918 | | | | SUNRISE: 0520 | | | | JUN 09 | | | | SUNSET: 1921 | | | | | | | |
| 03 | SCT | NC | | 10.00 | | 75 | 74 | 74 | 96 | 5 | 17 | 29.73 | 29.85 | 03 | BKN | 100 | | 10.00 | | 80 | 76 | 77 | 87 | 7 | 16 | 29.81 | 29.92 |
| 06 | FEW | NC | | 10.00 | | 74 | 73 | 73 | 97 | 3 | 17 | 29.76 | 29.87 | 06 | SCT | NC | | 10.00 | | 79 | 76 | 77 | 90 | 0 | 00 | 29.81 | 29.93 |
| 09 | SCT | NC | | 10.00 | | 81 | 73 | 75 | 77 | 6 | 16 | 29.79 | 29.91 | 09 | SCT | NC | | 10.00 | | 85 | 74 | 77 | 70 | 9 | 16 | 29.83 | 29.94 |
| 12 | SCT | NC | | 10.00 | | 87 | 72 | 77 | 61 | 13 | 13 | 29.76 | 29.88 | 12 | BKN | 040 | | 10.00 | | 92 | 72 | 78 | 52 | 20 | 14 | 29.79 | 29.90 |
| 15 | BKN | 050 | | 10.00 | | 90 | 72 | 77 | 56 | 15 | 14 | 29.71 | 29.82 | 15 | OVC | 029 | | 7.00 | -TSRA | 81 | 79 | 80 | 94 | 3 | 23 | 29.76 | 29.87 |
| 18 | SCT | NC | | 10.00 | | 84 | 73 | 76 | 70 | 20 | 13 | 29.71 | 29.83 | 18 | BKN | 130 | | 10.00 | | 83 | 74 | 77 | 74 | 9 | 15 | 29.75 | 29.86 |
| 21 | FEW | NC | | 10.00 | | 79 | 74 | 75 | 85 | 9 | 13 | 29.74 | 29.85 | 21 | SCT | NC | | 10.00 | | 80 | 74 | 76 | 82 | 7 | 16 | 29.76 | 29.87 |
| 24 | FEW | NC | | 10.00 | | 77 | 74 | 75 | 90 | 0 | 00 | 29.77 | 29.88 | 24 | BKN | 130 | | 10.00 | | 79 | 75 | 76 | 88 | 8 | 16 | 29.77 | 29.88 |
| SUNRISE: 0520 | | | | JUN 04 | | | | SUNSET: 1919 | | | | SUNRISE: 0520 | | | | JUN 10 | | | | SUNSET: 1922 | | | | | | | |
| 03 | FEW | NC | | 10.00 | | 75 | 74 | 74 | 96 | 0 | 00 | 29.74 | 29.85 | 03 | BKN | 020 | | 10.00 | | 78 | 76 | 77 | 93 | 3 | 16 | 29.73 | 29.84 |
| 06 | SCT | NC | | 10.00 | | 75 | 75 | 75 | 100 | 0 | 00 | 29.77 | 29.88 | 06 | BKN | 250 | | 10.00 | | 78 | 75 | 76 | 90 | 0 | 00 | 29.77 | 29.88 |
| 09 | BKN | 250 | | 10.00 | | 82 | 73 | 76 | 74 | 10 | 16 | 29.80 | 29.91 | 09 | BKN | 060 | | 10.00 | | 83 | 75 | 77 | 77 | 10 | 17 | 29.79 | 29.91 |
| 12 | BKN | 050 | | 10.00 | | 88 | 73 | 77 | 61 | 6 | VR | 29.79 | 29.90 | 12 | SCT | NC | | 10.00 | | 90 | 71 | 77 | 54 | 13 | 15 | 29.77 | 29.88 |
| 15 | BKN | 250 | | 10.00 | | 91 | 72 | 78 | 54 | 14 | 13 | 29.75 | 29.86 | 15 | SCT | NC | | 10.00 | | 91 | 72 | 78 | 54 | 15 | 12 | 29.73 | 29.84 |
| 18 | SCT | NC | | 10.00 | | 86 | 73 | 77 | 65 | 17 | 14 | 29.72 | 29.83 | 18 | SCT | NC | | 10.00 | | 88 | 74 | 78 | 63 | 16 | 13 | 29.71 | 29.82 |
| 21 | FEW | NC | | 10.00 | | 80 | 73 | 75 | 79 | 5 | 18 | 29.77 | 29.88 | 21 | FEW | NC | | 10.00 | | 82 | 75 | 77 | 79 | 12 | 14 | 29.76 | 29.87 |
| 24 | CLR | NC | | 10.00 | | 77 | 74 | 75 | 90 | 3 | 17 | 29.81 | 29.92 | 24 | SCT | NC | | 10.00 | | 80 | 74 | 76 | 82 | 7 | 16 | 29.79 | 29.90 |
| SUNRISE: 0520 | | | | JUN 05 | | | | SUNSET: 1919 | | | | SUNRISE: 0520 | | | | JUN 11 | | | | SUNSET: 1922 | | | | | | | |
| 03 | SCT | NC | | 10.00 | | 75 | 74 | 74 | 96 | 5 | 10 | 29.79 | 29.91 | 03 | FEW | NC | | 10.00 | | 78 | 75 | 76 | 90 | 5 | 17 | 29.75 | 29.86 |
| 06 | BKN | 250 | | 7.00 | | 73 | 73 | 73 | 100 | 0 | 00 | 29.79 | 29.91 | 06 | SCT | NC | | 9.00 | | 77 | 74 | 75 | 90 | 0 | 00 | 29.78 | 29.89 |
| 09 | BKN | 250 | | 10.00 | | 81 | 75 | 77 | 82 | 0 | 00 | 29.83 | 29.95 | 09 | SCT | NC | | 10.00 | | 84 | 73 | 76 | 70 | 12 | 15 | 29.81 | 29.93 |
| 12 | BKN | 250 | | 10.00 | | 89 | 69 | 75 | 52 | 10 | 04 | 29.82 | 29.93 | 12 | BKN | 250 | | 10.00 | | 88 | 73 | 77 | 61 | 7 | 21 | 29.79 | 29.91 |
| 15 | BKN | 250 | | 10.00 | | 92 | 68 | 75 | 46 | 7 | 04 | 29.76 | 29.87 | 15 | SCT | NC | | 10.00 | | 87 | 75 | 78 | 67 | 22 | 14 | 29.76 | 29.88 |
| 18 | SCT | NC | | 10.00 | | 92 | 68 | 75 | 46 | 10 | 06 | 29.73 | 29.85 | 18 | BKN | 250 | | 10.00 | | 86 | 75 | 78 | 70 | 14 | 13 | 29.74 | 29.85 |
| 21 | SCT | NC | | 10.00 | | 82 | 74 | 76 | 77 | 8 | 10 | 29.78 | 29.89 | 21 | SCT | NC | | 10.00 | | 82 | 75 | 77 | 79 | 10 | 14 | 29.76 | 29.87 |
| 24 | SCT | NC | | 10.00 | | 79 | 74 | 75 | 85 | 5 | 02 | 29.82 | 29.93 | 24 | SCT | NC | | 10.00 | | 79 | 74 | 75 | 85 | 0 | 00 | 29.78 | 29.89 |
| SUNRISE: 0520 | | | | JUN 06 | | | | SUNSET: 1920 | | | | SUNRISE: 0520 | | | | JUN 12 | | | | SUNSET: 1923 | | | | | | | |
| 03 | SCT | NC | | 10.00 | | 76 | 74 | 75 | 94 | 0 | 00 | 29.78 | 29.89 | 03 | SCT | NC | | 10.00 | | 77 | 74 | 75 | 90 | 0 | 00 | 29.78 | 29.89 |
| 06 | SCT | NC | | 6.00 | BR | 75 | 73 | 74 | 94 | 3 | 03 | 29.80 | 29.91 | 06 | SCT | NC | | 7.00 | | 75 | 74 | 74 | 96 | 0 | 00 | 29.80 | 29.92 |
| 09 | SCT | NC | | 10.00 | | 83 | 73 | 76 | 72 | 0 | 00 | 29.81 | 29.93 | 09 | BKN | 031 | | 10.00 | | 85 | 71 | 75 | 63 | 9 | 11 | 29.83 | 29.94 |
| 12 | BKN | 250 | | 10.00 | | 91 | 70 | 76 | 50 | 7 | 08 | 29.81 | 29.92 | 12 | BKN | 250 | | 9.00 | | 88 | 69 | 75 | 54 | 7 | 08 | 29.81 | 29.92 |
| 15 | BKN | 080 | | 10.00 | | 93 | 70 | 77 | 47 | 9 | 02 | 29.75 | 29.86 | 15 | BKN | 250 | | 10.00 | | 91 | 68 | 75 | 47 | 9 | 09 | 29.76 | 29.87 |
| 18 | BKN | 055 | | 10.00 | | 92 | 72 | 78 | 52 | 13 | 10 | 29.73 | 29.85 | 18 | SCT | NC | | 10.00 | | 88 | 71 | 76 | 57 | 13 | 13 | 29.74 | 29.85 |
| 21 | OVC | 070 | | 10.00 | -RA | 81 | 73 | 75 | 77 | 0 | 00 | 29.78 | 29.90 | 21 | SCT | NC | | 10.00 | | 81 | 71 | 74 | 72 | 8 | 17 | 29.76 | 29.87 |
| 24 | BKN | 130 | | 10.00 | | 80 | 74 | 76 | 82 | 3 | 02 | 29.79 | 29.90 | 24 | FEW | NC | | 10.00 | | 77 | 71 | 73 | 82 | 0 | 00 | 29.80 | 29.91 |

OBSERVATIONS AT 3-HOURLY INTERVALS

HOUSTON, TX

JUNE 2002

IAH

WBAN # 12960

| HOUR (LST) | SKY COVER | | CEILING 100'S OF FT | SATELLITE | | VISIBILITY (MILES) | WEATHER | TEMPERATURE °F | | | | WIND | | PRESSURE (INCHES, HG) | | HOUR (LST) | SKY COVER | | CEILING 100'S OF FT | SATELLITE | | VISIBILITY (MILES) | WEATHER | TEMPERATURE °F | | | | WIND | | PRESSURE (INCHES, HG) | | | | | | | | | | | | | | | | | |
|---------------|---------------------------|----------------------|------------------------|-----------|-----------|-----------------------|---------|-------------------|----------------------------|-------------|--------------------------|---------|--------------|---------------------------|----------------------|--------------|-----------|-----------|------------------------|-----------|----------------------------|-----------------------|---------|-------------------|--------------------------|---------|--------------|---------------------------|----------------------|--------------------------|-----------|----------|----------------------------|-------------|--------------------------|---------|--------------|---------|---------|--------------|--|--|--|--|--|--|--|
| | OBSERVATION TIME (LST) | EFF CLD AMT Oktas | | DRY BULB | DEW POINT | | | WET BULB | RELATIVE HUMIDITY (PCT) | SPEED (MPH) | DIRECTION TENS OF DEG | STATION | SEA LEVEL | OBSERVATION TIME (LST) | EFF CLD AMT Oktas | | DRY BULB | DEW POINT | | WET BULB | RELATIVE HUMIDITY (PCT) | | | SPEED (MPH) | DIRECTION TENS OF DEG | STATION | SEA LEVEL | OBSERVATION TIME (LST) | EFF CLD AMT Oktas | DRY BULB | DEW POINT | WET BULB | RELATIVE HUMIDITY (PCT) | SPEED (MPH) | DIRECTION TENS OF DEG | STATION | SEA LEVEL | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | WEATHER | WEATHER | | | | | | | | |
| SUNRISE: 0520 | | | | | | | | JUN 13 | | | | | | | | SUNSET: 1923 | | | | | | | | SUNRISE: 0521 | | | | | | | | JUN 19 | | | | | | | | SUNSET: 1925 | | | | | | | |
| 03 | FEW | NC | | | 10.00 | | | 73 | 70 | 71 | 90 | 0 | 00 | 29.77 | 29.88 | 03 | FEW | NC | | | 9.00 | | | 76 | 74 | 75 | 94 | 5 | 12 | 29.79 | 29.91 | | | | | | | | | | | | | | | | |
| 06 | BKN | 200 | | | 8.00 | | | 74 | 70 | 71 | 88 | 5 | 01 | 29.78 | 29.89 | 06 | BKN | 250 | | | 7.00 | | | 74 | 73 | 73 | 97 | 0 | 00 | 29.82 | 29.93 | | | | | | | | | | | | | | | | |
| 09 | BKN | 026 | | | 10.00 | | | 82 | 72 | 75 | 72 | 8 | 16 | 29.78 | 29.89 | 09 | BKN | 250 | | | 10.00 | | | 84 | 71 | 75 | 65 | 8 | 14 | 29.87 | 29.98 | | | | | | | | | | | | | | | | |
| 12 | BKN | 032 | | | 10.00 | | | 89 | 68 | 75 | 50 | 5 | 12 | 29.77 | 29.88 | 12 | BKN | 046 | | | 10.00 | | | 89 | 71 | 77 | 55 | 7 | VR | 29.86 | 29.98 | | | | | | | | | | | | | | | | |
| 15 | SCT | NC | | | 10.00 | | | 92 | 69 | 76 | 47 | 9 | 15 | 29.71 | 29.83 | 15 | BKN | 100 | | | 10.00 | -TSRA | | 77 | 74 | 75 | 90 | 12 | 12 | 29.86 | 29.98 | | | | | | | | | | | | | | | | |
| 18 | SCT | NC | | | 10.00 | | | 89 | 73 | 78 | 59 | 12 | 11 | 29.71 | 29.83 | 18 | BKN | 250 | | | 10.00 | | | 85 | 76 | 79 | 75 | 14 | 13 | 29.86 | 29.97 | | | | | | | | | | | | | | | | |
| 21 | BKN | 250 | | | 10.00 | | | 83 | 73 | 76 | 72 | 7 | 17 | 29.73 | 29.84 | 21 | SCT | NC | | | 10.00 | | | 81 | 76 | 77 | 85 | 9 | 12 | 29.90 | 30.01 | | | | | | | | | | | | | | | | |
| 24 | SCT | NC | | | 10.00 | | | 80 | 73 | 75 | 79 | 3 | 21 | 29.79 | 29.90 | 24 | SCT | NC | | | 10.00 | | | 79 | 76 | 77 | 90 | 7 | 16 | 29.94 | 30.05 | | | | | | | | | | | | | | | | |
| SUNRISE: 0520 | | | | | | | | JUN 14 | | | | | | | | SUNSET: 1923 | | | | | | | | SUNRISE: 0521 | | | | | | | | JUN 20 | | | | | | | | SUNSET: 1925 | | | | | | | |
| 03 | BKN | 250 | | | 10.00 | | | 76 | 73 | 74 | 91 | 0 | 00 | 29.79 | 29.90 | 03 | SCT | NC | | | 10.00 | | | 77 | 77 | 77 | 100 | 5 | 14 | 29.93 | 30.04 | | | | | | | | | | | | | | | | |
| 06 | BKN | 250 | | | 10.00 | | | 75 | 72 | 73 | 90 | 3 | 31 | 29.80 | 29.92 | 06 | SCT | NC | | | 10.00 | | | 77 | 76 | 76 | 96 | 0 | 00 | 29.97 | 30.08 | | | | | | | | | | | | | | | | |
| 09 | BKN | 250 | | | 10.00 | | | 85 | 73 | 77 | 68 | 10 | 30 | 29.83 | 29.95 | 09 | BKN | 025 | | | 10.00 | | | 84 | 76 | 78 | 77 | 10 | 12 | 30.04 | 30.15 | | | | | | | | | | | | | | | | |
| 12 | BKN | 250 | | | 10.00 | | | 93 | 71 | 78 | 49 | 14 | 31 | 29.80 | 29.91 | 12 | BKN | 110 | | | 10.00 | | | 83 | 71 | 75 | 67 | 3 | 10 | 30.05 | 30.16 | | | | | | | | | | | | | | | | |
| 15 | BKN | 250 | | | 10.00 | | | 95 | 68 | 76 | 41 | 15 | 35 | 29.75 | 29.86 | 15 | OVC | 250 | | | 10.00 | | | 81 | 74 | 76 | 79 | 12 | 09 | 30.02 | 30.14 | | | | | | | | | | | | | | | | |
| 18 | SCT | NC | | | 10.00 | | | 94 | 65 | 74 | 38 | 12 | 01 | 29.74 | 29.85 | 18 | BKN | 250 | | | 10.00 | | | 84 | 77 | 79 | 80 | 10 | 11 | 30.00 | 30.11 | | | | | | | | | | | | | | | | |
| 21 | CLR | NC | | | 10.00 | | | 85 | 67 | 73 | 55 | 9 | 02 | 29.79 | 29.91 | 21 | BKN | 250 | | | 10.00 | | | 80 | 77 | 78 | 90 | 5 | 05 | 30.03 | 30.14 | | | | | | | | | | | | | | | | |
| 24 | CLR | NC | | | 10.00 | | | 79 | 66 | 71 | 65 | 6 | 01 | 29.84 | 29.95 | 24 | BKN | 250 | | | 10.00 | | | 77 | 76 | 76 | 96 | 5 | 06 | 30.06 | 30.17 | | | | | | | | | | | | | | | | |
| SUNRISE: 0520 | | | | | | | | JUN 15 | | | | | | | | SUNSET: 1924 | | | | | | | | SUNRISE: 0521 | | | | | | | | JUN 21 | | | | | | | | SUNSET: 1925 | | | | | | | |
| 03 | CLR | NC | | | 10.00 | | | 72 | 65 | 68 | 79 | 0 | 00 | 29.85 | 29.96 | 03 | BKN | 110 | | | 9.00 | | | 75 | 75 | 75 | 100 | 3 | 32 | 30.03 | 30.15 | | | | | | | | | | | | | | | | |
| 06 | FEW | NC | | | 10.00 | | | 72 | 62 | 66 | 71 | 5 | 02 | 29.87 | 29.98 | 06 | BKN | 250 | | | 9.00 | | | 73 | 73 | 73 | 100 | 0 | 00 | 30.06 | 30.17 | | | | | | | | | | | | | | | | |
| 09 | FEW | NC | | | 10.00 | | | 82 | 55 | 66 | 40 | 9 | 07 | 29.89 | 30.01 | 09 | SCT | NC | | | 10.00 | | | 82 | 76 | 78 | 82 | 3 | VR | 30.09 | 30.20 | | | | | | | | | | | | | | | | |
| 12 | SCT | NC | | | 10.00 | | | 89 | 56 | 68 | 33 | 6 | 05 | 29.87 | 29.98 | 12 | SCT | NC | | | 10.00 | | | 89 | 73 | 78 | 59 | 10 | 04 | 30.05 | 30.16 | | | | | | | | | | | | | | | | |
| 15 | SCT | NC | | | 10.00 | | | 93 | 58 | 70 | 31 | 9 | 31 | 29.80 | 29.92 | 15 | SCT | NC | | | 10.00 | | | 90 | 72 | 77 | 56 | 12 | 11 | 30.00 | 30.11 | | | | | | | | | | | | | | | | |
| 18 | BKN | 250 | | | 10.00 | | | 94 | 57 | 70 | 29 | 7 | VR | 29.74 | 29.85 | 18 | SCT | NC | | | 10.00 | | | 87 | 73 | 77 | 63 | 9 | 14 | 29.97 | 30.09 | | | | | | | | | | | | | | | | |
| 21 | SCT | NC | | | 10.00 | | | 83 | 65 | 71 | 55 | 8 | 16 | 29.74 | 29.85 | 21 | BKN | 055 | | | 10.00 | -TSRA | | 78 | 75 | 76 | 90 | 6 | 03 | 30.02 | 30.14 | | | | | | | | | | | | | | | | |
| 24 | FEW | NC | | | 10.00 | | | 80 | 71 | 74 | 74 | 9 | 18 | 29.74 | 29.85 | 24 | BKN | 250 | | | 7.00 | | | 75 | 74 | 74 | 96 | 3 | 33 | 30.03 | 30.14 | | | | | | | | | | | | | | | | |
| SUNRISE: 0520 | | | | | | | | JUN 16 | | | | | | | | SUNSET: 1924 | | | | | | | | SUNRISE: 0521 | | | | | | | | JUN 22 | | | | | | | | SUNSET: 1926 | | | | | | | |
| 03 | BKN | 250 | | | 10.00 | | | 79 | 74 | 75 | 85 | 12 | 17 | 29.66 | 29.77 | 03 | SCT | NC | | | 8.00 | | | 73 | 72 | 72 | 96 | 3 | 34 | 30.00 | 30.11 | | | | | | | | | | | | | | | | |
| 06 | OVC | 022 | | | 4.00 | | TSRA | 69 | 68 | 68 | 96 | 13 | 33 | 29.83 | 29.94 | 06 | SCT | NC | | | 10.00 | MIFG | | 71 | 70 | 70 | 96 | 3 | 35 | 30.02 | 30.13 | | | | | | | | | | | | | | | | |
| 09 | SCT | NC | | | 10.00 | | | 74 | 71 | 72 | 91 | 6 | 19 | 29.72 | 29.84 | 09 | FEW | NC | | | 10.00 | | | 81 | 69 | 73 | 67 | 8 | 04 | 30.04 | 30.16 | | | | | | | | | | | | | | | | |
| 12 | SCT | NC | | | 10.00 | | | 85 | 71 | 75 | 63 | 8 | 33 | 29.73 | 29.84 | 12 | SCT | NC | | | 10.00 | | | 89 | 62 | 71 | 41 | 9 | 04 | 30.01 | 30.12 | | | | | | | | | | | | | | | | |
| 15 | SCT | NC | | | 10.00 | | | 88 | 69 | 75 | 54 | 14 | 31 | 29.71 | 29.83 | 15 | FEW | NC | | | 10.00 | | | 91 | 57 | 70 | 32 | 8 | 10 | 29.96 | 30.07 | | | | | | | | | | | | | | | | |
| 18 | BKN | 100 | | | 10.00 | | | 86 | 70 | 75 | 59 | 14 | 33 | 29.72 | 29.83 | 18 | SCT | NC | | | 10.00 | | | 90 | 59 | 70 | 35 | 10 | 07 | 29.92 | 30.03 | | | | | | | | | | | | | | | | |
| 21 | SCT | NC | | | 10.00 | | | 78 | 68 | 71 | 71 | 10 | 34 | 29.75 | 29.87 | 21 | CLR | NC | | | 10.00 | | | 81 | 67 | 72 | 62 | 3 | 17 | 29.93 | 30.05 | | | | | | | | | | | | | | | | |
| 24 | BKN | 250 | | | 10.00 | | | 74 | 69 | 71 | 85 | 8 | 36 | 29.78 | 29.89 | 24 | CLR | NC | | | 10.00 | | | 74 | 69 | 71 | 85 | 3 | 31 | 29.94 | 30.05 | | | | | | | | | | | | | | | | |
| SUNRISE: 0520 | | | | | | | | JUN 17 | | | | | | | | SUNSET: 1924 | | | | | | | | SUNRISE: 0521 | | | | | | | | JUN 23 | | | | | | | | SUNSET: 1926 | | | | | | | |
| 03 | BKN | 250 | | | 8.00 | | | 71 | 69 | 70 | 94 | 3 | 33 | 29.77 | 29.88 | 03 | FEW | NC | | | 10.00 | | | 71 | 68 | 69 | 90 | 3 | 30 | 29.91 | 30.02 | | | | | | | | | | | | | | | | |
| 06 | OVC | 010 | | | 7.00 | | | 70 | 68 | 69 | 93 | 9 | 36 | 29.79 | 29.91 | 06 | SCT | NC | | | 10.00 | | | 71 | 67 | 68 | 87 | 3 | 34 | 29.92 | 30.03 | | | | | | | | | | | | | | | | |
| 09 | BKN | 018 | | | 10.00 | | | 74 | 66 | 69 | 76 | 8 | 36 | 29.82 | 29.93 | 09 | SCT | NC | | | 10.00 | | | 82 | 68 | 73 | 63 | 7 | 32 | 29.95 | 30.06 | | | | | | | | | | | | | | | | |
| 12 | OVC | 018 | | | 10.00 | | | 75 | 68 | 70 | 79 | 7 | 04 | 29.82 | 29.93 | 12 | OVC | 250 | | | 10.00 | | | 90 | 63 | 72 | 41 | 7 | VR | 29.92 | 30.03 | | | | | | | | | | | | | | | | |
| 15 | BKN | 250 | | | 10.00 | | | 83 | 68 | 73 | 61 | 8 | 05 | 29.75 | 29.87 | 15 | OVC | 100 | | | 10.00 | | | 88 | 64 | 72 | 45 | 8 | 07 | 29.87 | 29.98 | | | | | | | | | | | | | | | | |
| 18 | SCT | NC | | | 10.00 | | | 85 | 66 | 72 | 53 | 7 | 03 | 29.72 | 29.83 | 18 | BKN | 250 | | | 10.00 | | | 88 | 65 | 73 | 46 | 10 | 06 | 29.84 | 29.96 | | | | | | | | | | | | | | | | |
| 21 | CLR | NC | | | 10.00 | | | 80 | 70 | 73 | 71 | 0 | 00 | 29.75 | 29.86 | 21 | BKN | 110 | | | 10.00 | | | 83 | 68 | 73 | 61 | 7 | 12 | 29.88 | 29.99 | | | | | | | | | | | | | | | | |
| 24 | FEW | NC | | | 9.00 | | | 74 | 70 | 71 | 88 | 0 | 00 | 29.76 | 29.87 | 24 | BKN | 110 | | | 10.00 | | | 79 | 69 | 72 | 72 | 3 | 08 | 29.88 | 29.99 | | | | | | | | | | | | | | | | |
| SUNRISE: 0520 | | | | | | | | JUN 18 | | | | | | | | SUNSET: 1925 | | | | | | | | SUNRISE: 0522 | | | | | | | | JUN 24 | | | | | | | | SUNSET: 1926 | | | | | | | |
| 03 | BKN | 047 | | | 9.00 | | | 72 | 69 | 70 | 91 | 3 | 03 | 29.75 | 29.86 | 03 | BKN | 110 | | | 10.00 | | | 75 | 70 | 72 | 84 | 0 | 00 | 29.85 | 29.96 | | | | | | | | | | | | | | | | |
| 06 | OVC | 150 | | | 6.00 | | BR | 70 | 69 | 69 | 97 | 3 | 30 | 29.77 | 29.89 | 06 | OVC | 080 | | | 9.00 | | | 74 | 71 | 72 | 91 | 0 | 00 | 29.87 | 29.98 | | | | | | | | | | | | | | | | |
| 09 | OVC | 250 | | | 10.00 | | | 81 | 69 | 73 | 67 | 9 | 11 | 29.80 | 29.91 | 09 | OVC | 075 | | | 10.00 | | | 80 | 72 | 75 | 76 | 0 | 00 | 29.91 | 30.02 | | | | | | | | | | | | | | | | |
| 12 | BKN | 047 | | | 10.00 | | | 86 | 68 | 74 | 55 | 8 | 05 | 29.79 | 29.91 | 12 | OVC | 250 | | | 9.00 | | | 80 | 72 | 75 | 76 | 9 | 06 | 29.89 | 30.01 | | | | | | | | | | | | | | | | |
| 15 | BKN | 250 | | | 10.00 | | | 90 | 65 | 73 | 44 | 10 | 06 | 29.75 | 29.86 | 15 | OVC | 250 | | | 10.00 | | | 81 | 73 | 75 | 77 | 6 | 05 | 29.87 | 29.98 | | | | | | | | | | | | | | | | |
| 18 | SCT | NC | | | 10.00 | | | 88 | 65 | 73 | 46 | 9 | 13 | 29.71 | 29.83 | 18 | BKN | 250 | | | 10.00 | | | 81 | 72 | 75 | 74 | 7 | 15 | 29.82 | 29.93 | | | | | | | | | | | | | | | | |
| 21 | SCT | NC | | | 10.00 | | | 82 | 73 | 76 | 74 | 10 | 13 | 29.77 | 29.88 | 21 | SCT | NC | | | 10.00 | | | 77 | 73 | 74 | 88 | 8 | 11 | 29.87 | 29.98 | | | | | | | | | | | | | | | | |
| 24 | CLR | NC | | | 10.00 | | | 78 | 73 | 75 | 85 | 8 | 11 | 29.80 | 29.91 | 24 | FEW | NC | | | 10.00 | | | 75 | 73 | 74 | 94 | 0 | 00 | 29.86 | 29.98 | | | | | | | | | | | | | | | | |

OBSERVATIONS AT 3-HOURLY INTERVALS

HOUSTON, TX

JUNE 2002

IAH

WBAN # 12960

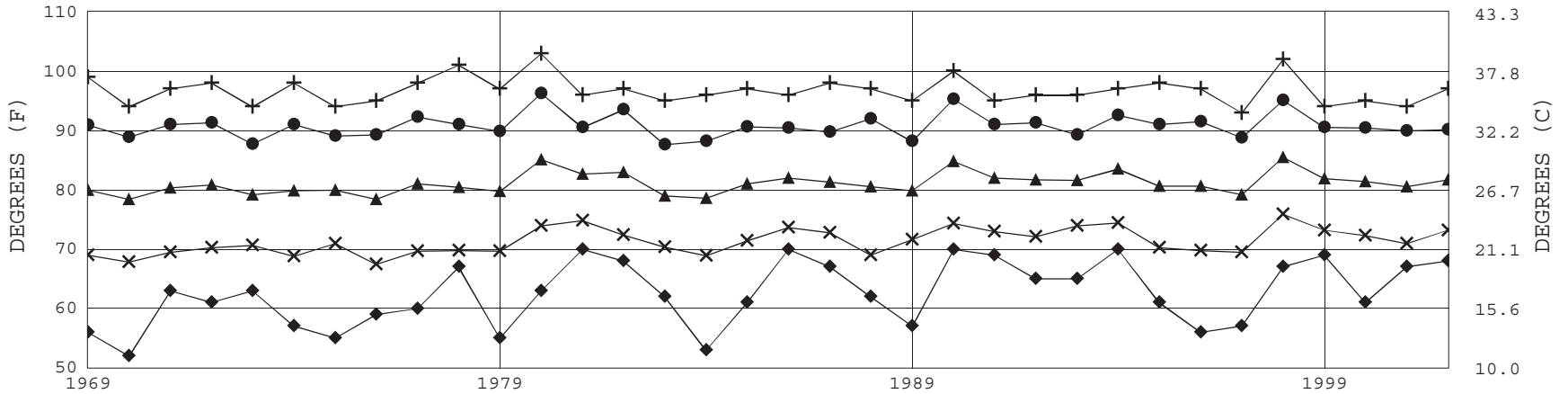
| HOUR (LST) | SKY COVER | | CEILING 100'S OF FT | SATELLITE | | VISIBILITY (MILES) | WEATHER | TEMPERATURE °F | | | | WIND | | PRESSURE (INCHES, HG) | | |
|------------|-----------|------------------------|------------------------|---------------------------|----------------------|-----------------------|----------|-------------------|-----------|----------|----------------------------|--------------|--------------------------|--------------------------|--------------|--|
| | SKY COVER | CEILING 100'S OF FT | | OBSERVATION TIME (LST) | EFF CLD AMT Oktas | | | DRY BULB | DEW POINT | WET BULB | RELATIVE HUMIDITY (PCT) | SPEED (MPH) | DIRECTION TENS OF DEG | STATION | SEA LEVEL | |
| | | | | | | SUNRISE: 0522 | JUN 25 | | | | | SUNSET: 1926 | | | | |
| 03 | CLR | NC | | | | 5.00 | BR | 72 | 72 | 72 | 100 | 3 | 01 | 29.85 | 29.96 | |
| 06 | BKN | 250 | | | | 6.00 | BR | 72 | 72 | 72 | 100 | 0 | 00 | 29.86 | 29.98 | |
| 09 | BKN | 046 | | | | 10.00 | | 81 | 74 | 76 | 79 | 6 | 07 | 29.90 | 30.02 | |
| 12 | OVC | 006 | | | | 2.50 | +TSRA BR | 73 | 72 | 72 | 96 | 0 | 00 | 29.92 | 30.03 | |
| 15 | OVC | 120 | | | | 10.00 | | 79 | 74 | 75 | 85 | 6 | 13 | 29.88 | 29.99 | |
| 18 | BKN | 250 | | | | 10.00 | | 81 | 73 | 75 | 77 | 9 | 11 | 29.84 | 29.96 | |
| 21 | SCT | NC | | | | 10.00 | | 77 | 75 | 76 | 94 | 5 | 11 | 29.88 | 29.99 | |
| 24 | SCT | NC | | | | 10.00 | | 75 | 74 | 74 | 96 | 0 | 00 | 29.89 | 30.00 | |

| HOUR (LST) | SKY COVER | | CEILING 100'S OF FT | SATELLITE | | VISIBILITY (MILES) | WEATHER | TEMPERATURE °F | | | | WIND | | PRESSURE (INCHES, HG) | |
|------------|-----------|------------------------|------------------------|---------------------------|----------------------|-----------------------|---------|-------------------|-----------|----------|----------------------------|--------------|--------------------------|--------------------------|--------------|
| | SKY COVER | CEILING 100'S OF FT | | OBSERVATION TIME (LST) | EFF CLD AMT Oktas | | | DRY BULB | DEW POINT | WET BULB | RELATIVE HUMIDITY (PCT) | SPEED (MPH) | DIRECTION TENS OF DEG | STATION | SEA LEVEL |
| | | | | | | SUNRISE: 0522 | JUN 26 | | | | | SUNSET: 1926 | | | |
| 03 | CLR | NC | | | | 10.00 | | 74 | 74 | 74 | 100 | 0 | 00 | 29.87 | 29.99 |
| 06 | BKN | 130 | | | | 10.00 | | 74 | 74 | 74 | 100 | 0 | 00 | 29.88 | 29.99 |
| 09 | BKN | 031 | | | | 10.00 | | 82 | 77 | 78 | 85 | 6 | 13 | 29.89 | 30.01 |
| 12 | OVC | 250 | | | | 10.00 | TS | 77 | 72 | 74 | 85 | 0 | 00 | 29.88 | 29.99 |
| 15 | OVC | 250 | | | | 10.00 | | 83 | 75 | 77 | 77 | 12 | 16 | 29.83 | 29.95 |
| 18 | BKN | 120 | | | | 10.00 | | 83 | 74 | 77 | 74 | 13 | 13 | 29.83 | 29.94 |
| 21 | BKN | 250 | | | | 10.00 | | 79 | 74 | 75 | 85 | 5 | 19 | 29.82 | 29.93 |
| 24 | SCT | NC | | | | 10.00 | | 76 | 74 | 75 | 94 | 5 | 16 | 29.84 | 29.95 |
| | | | | | | SUNRISE: 0523 | JUN 27 | | | | | SUNSET: 1926 | | | |
| 03 | FEW | NC | | | | 10.00 | | 75 | 74 | 74 | 96 | 6 | 11 | 29.79 | 29.91 |
| 06 | OVC | 024 | | | | 10.00 | -RA | 75 | 75 | 75 | 100 | 8 | 16 | 29.80 | 29.91 |
| 09 | BKN | 018 | | | | 10.00 | | 79 | 75 | 76 | 88 | 8 | 13 | 29.80 | 29.91 |
| 12 | OVC | 250 | | | | 10.00 | | 86 | 73 | 77 | 65 | 7 | 23 | 29.79 | 29.91 |
| 15 | OVC | 250 | | | | 10.00 | TS | 86 | 74 | 77 | 67 | 7 | 25 | 29.75 | 29.86 |
| 18 | OVC | 095 | | | | 10.00 | | 81 | 74 | 76 | 79 | 6 | 18 | 29.75 | 29.86 |
| 21 | BKN | 250 | | | | 10.00 | | 79 | 75 | 76 | 88 | 7 | 14 | 29.78 | 29.89 |
| 24 | SCT | NC | | | | 10.00 | | 77 | 74 | 75 | 90 | 3 | 18 | 29.82 | 29.93 |
| | | | | | | SUNRISE: 0523 | JUN 28 | | | | | SUNSET: 1926 | | | |
| 03 | CLR | NC | | | | 10.00 | | 75 | 74 | 74 | 96 | 0 | 00 | 29.80 | 29.91 |
| 06 | BKN | 250 | | | | 10.00 | | 74 | 74 | 74 | 100 | 3 | 34 | 29.82 | 29.94 |
| 09 | OVC | 090 | | | | 10.00 | | 78 | 72 | 74 | 82 | 7 | 20 | 29.86 | 29.98 |
| 12 | OVC | 100 | | | | 8.00 | -RA | 78 | 75 | 76 | 90 | 7 | 12 | 29.87 | 29.98 |
| 15 | OVC | 011 | | | | 10.00 | | 77 | 75 | 76 | 94 | 7 | 12 | 29.81 | 29.93 |
| 18 | OVC | 100 | | | | 10.00 | | 78 | 76 | 77 | 93 | 7 | 12 | 29.83 | 29.94 |
| 21 | BKN | 130 | | | | 10.00 | | 76 | 75 | 75 | 97 | 8 | 16 | 29.86 | 29.98 |
| 24 | BKN | 250 | | | | 10.00 | | 76 | 75 | 75 | 97 | 3 | 16 | 29.88 | 30.00 |
| | | | | | | SUNRISE: 0523 | JUN 29 | | | | | SUNSET: 1926 | | | |
| 03 | BKN | 250 | | | | 10.00 | | 74 | 74 | 74 | 100 | 3 | 04 | 29.87 | 29.98 |
| 06 | OVC | 021 | | | | 8.00 | | 75 | 75 | 75 | 100 | 6 | 05 | 29.90 | 30.01 |
| 09 | OVC | 100 | | | | 6.00 | -RA BR | 75 | 75 | 75 | 100 | 3 | 16 | 29.94 | 30.05 |
| 12 | OVC | 021 | | | | 7.00 | -RA | 80 | 79 | 79 | 97 | 10 | 10 | 29.94 | 30.05 |
| 15 | OVC | 023 | | | | 7.00 | -RA | 74 | 74 | 74 | 100 | 7 | 13 | 29.99 | 30.10 |
| 18 | OVC | 120 | | | | 10.00 | | 78 | 75 | 76 | 90 | 9 | 09 | 29.91 | 30.02 |
| 21 | OVC | 120 | | | | 10.00 | | 76 | 75 | 75 | 97 | 9 | 09 | 29.93 | 30.05 |
| 24 | OVC | 120 | | | | 7.00 | | 78 | 77 | 77 | 97 | 7 | 13 | 29.96 | 30.07 |
| | | | | | | SUNRISE: 0524 | JUN 30 | | | | | SUNSET: 1926 | | | |
| 03 | OVC | 250 | | | | 9.00 | | 77 | 77 | 77 | 100 | 6 | 12 | 29.95 | 30.06 |
| 06 | OVC | 130 | | | | 8.00 | | 78 | 78 | 78 | 100 | 7 | 11 | 29.97 | 30.09 |
| 09 | OVC | 130 | | | | 10.00 | | 82 | 79 | 80 | 91 | 9 | 13 | 30.00 | 30.11 |
| 12 | OVC | 120 | | | | 10.00 | | 84 | 78 | 80 | 82 | 15 | 12 | 29.99 | 30.10 |
| 15 | BKN | 120 | | | | 10.00 | -RA | 86 | 78 | 80 | 77 | 14 | 13 | 29.95 | 30.06 |
| 18 | BKN | 120 | | | | 10.00 | | 83 | 77 | 79 | 82 | 13 | 12 | 29.94 | 30.05 |
| 21 | BKN | 250 | | | | 10.00 | | 80 | 78 | 79 | 94 | 8 | 12 | 29.97 | 30.09 |
| 24 | BKN | 120 | | | | 10.00 | | 78 | 78 | 78 | 100 | 7 | 12 | 29.97 | 30.08 |

3-HOURLY OBSERVATION NOTES
 Sky Cover is the amount of the sky obscured. CLR or SKC = 0, FEW = 1/8-2/8, SCT = 3/8-4/8, BKN = 5/8-7/8, OVC = 8/8, VV = Vertical Visibility = 8/8. Ceiling is reported in hundreds of feet above ground level for clouds at or below 12,000 feet. NC = No ceiling detected. & = Original observation contained additional weather elements. See page 3 for additional notes.

| HOUR (LST) | AVERAGES | | | | | | | | | | RESULTANT WIND (MPH) | |
|------------|------------|-------------|----------|-----------|----------|-------------------|-----------------------|-----------|--------------------|------------------|----------------------|-----------|
| | CEILOMETER | EFF CLD AMT | DRY BULB | DEW POINT | WET BULB | RELATIVE HUMIDITY | PRESSURE (INCHES, HG) | | VISIBILITY (MILES) | WIND SPEED (MPH) | SPEED | DIRECTION |
| | | | | | | | STATION | SEA LEVEL | | | | |
| 01 | | | 76 | 73 | 74 | 90 | 29.83 | 29.94 | 9.77 | 3 | 1 | 14 |
| 02 | | | 76 | 73 | 74 | 92 | 29.82 | 29.93 | 9.70 | 2 | 1 | 14 |
| 03 | | | 75 | 73 | 74 | 94 | 29.82 | 29.93 | 9.57 | 3 | 1 | 12 |
| 04 | | | 75 | 73 | 73 | 94 | 29.82 | 29.93 | 9.50 | 3 | 1 | 9 |
| 05 | | | 74 | 73 | 73 | 94 | 29.83 | 29.94 | 9.37 | 2 | 1 | 6 |
| 06 | | | 74 | 72 | 73 | 95 | 29.84 | 29.95 | 8.33 | 3 | 1 | 1 |
| 07 | | | 76 | 73 | 74 | 90 | 29.85 | 29.97 | 8.43 | 4 | 2 | 10 |
| 08 | | | 79 | 73 | 75 | 82 | 29.86 | 29.98 | 9.70 | 7 | 3 | 11 |
| 09 | | | 81 | 72 | 75 | 75 | 29.86 | 29.98 | 9.87 | 7 | 4 | 13 |
| 10 | | | 84 | 72 | 75 | 68 | 29.86 | 29.98 | 9.83 | 6 | 4 | 12 |
| 11 | | | 85 | 71 | 76 | 64 | 29.86 | 29.97 | 9.87 | 7 | 5 | 13 |
| 12 | | | 86 | 70 | 75 | 62 | 29.85 | 29.96 | 9.52 | 7 | 4 | 9 |
| 13 | | | 86 | 70 | 75 | 61 | 29.84 | 29.95 | 9.53 | 8 | 5 | 12 |
| 14 | | | 87 | 70 | 76 | 60 | 29.82 | 29.94 | 10.00 | 9 | 6 | 12 |
| 15 | | | 87 | 71 | 76 | 62 | 29.81 | 29.92 | 9.80 | 11 | 7 | 11 |
| 16 | | | 87 | 71 | 76 | 62 | 29.80 | 29.91 | 10.00 | 10 | 6 | 11 |
| 17 | | | 87 | 71 | 76 | 61 | 29.79 | 29.90 | 9.90 | 11 | 8 | 11 |
| 18 | | | 86 | 71 | 76 | 64 | 29.79 | 29.90 | 10.00 | 11 | 9 | 11 |
| 19 | | | 84 | 72 | 76 | 70 | 29.80 | 29.91 | 10.00 | 10 | 8 | 12 |
| 20 | | | 82 | 73 | 76 | 75 | 29.80 | 29.92 | 10.00 | 9 | 7 | 13 |
| 21 | | | 80 | 73 | 75 | 80 | 29.82 | 29.93 | 10.00 | 7 | 5 | 13 |
| 22 | | | 79 | 73 | 75 | 82 | 29.83 | 29.95 | 10.00 | 6 | 4 | 13 |
| 23 | | | 78 | 73 | 75 | 86 | 29.84 | 29.95 | 9.80 | 5 | 3 | 14 |
| 24 | | | 77 | 73 | 75 | 88 | 29.84 | 29.95 | 9.77 | 4 | 2 | 14 |

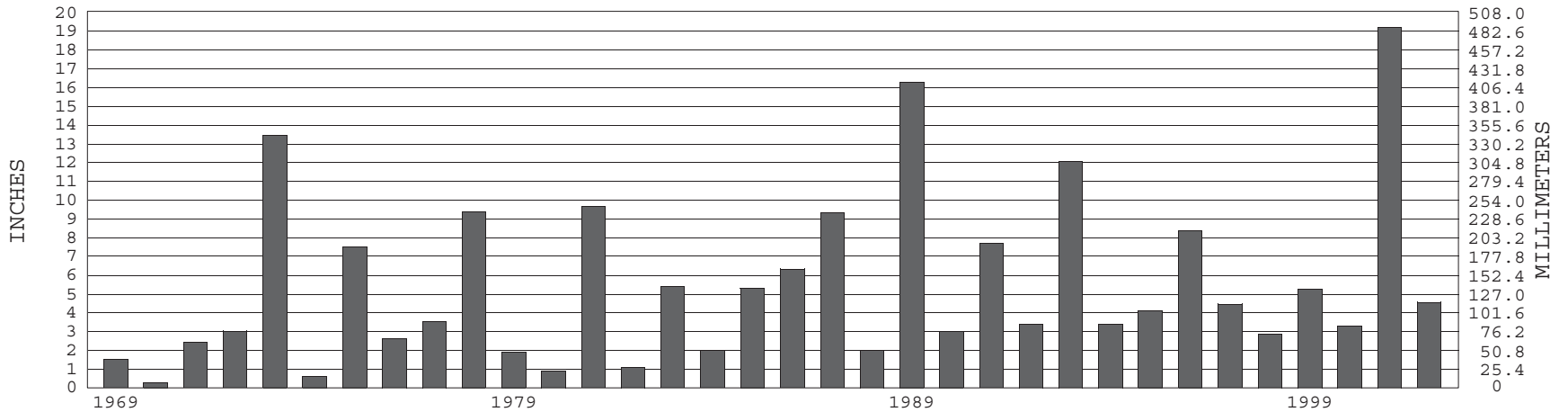
HOUSTON, TX JUNE TEMPERATURES



+ Extreme Max. ● Mean Max. ▲ Mean × Mean Min. ◆ Extreme Min.

Long-Term (1969-2002) Mean: 81.1 1961-1990 Normal: 81.3

HOUSTON, TX JUNE PRECIPITATION



Long-Term (1969-2002) Mean Monthly Total: 5.47

1961-1990 Normal: 5.35



JUNE 2002

HOUSTON, TX

LOCAL CLIMATOLOGICAL DATA

NOAA, National Climatic Data Center

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