1999

Fahrenheit

110-105-

100-95-

90-

85-

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75-70-

65-60-

55-50-

45

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TEMPERATURE

LOCAL CLIMATOLOGICAL DATA ANNUAL SUMMARY WITH COMPARATIVE DATA



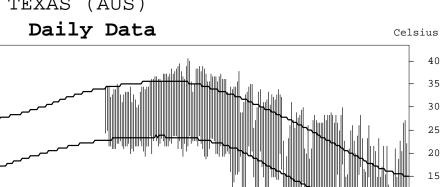
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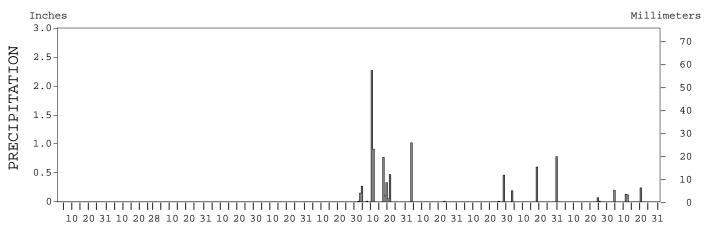
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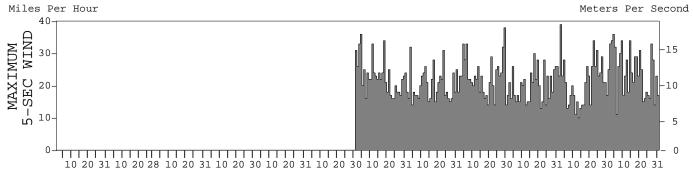
AUSTIN/BERGSTROM, TEXAS (AUS)



Freezing

10 20 31 10 20 28 10 20 31 10 20 30 10 20 31 10 20 30 10 20 31 10 20 31 10 20 31 10 20 30 10 20 31 10 20 30 10 20 31 10 20 30 10 20 31 JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC





I CERTIFY THAT THIS IS AN OFFICIAL PUBLICATION OF THE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION, AND IS COMPILED FROM RECORDS ON FILE AT THE NATIONAL CLIMATIC DATA CENTER. \bigcirc

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 1999

AUSTIN/BERGSTROM, TX (AUS)

LATITUDE: LONGITUDE: ELEVATION (FT): TIME ZONE: WBAN: 13904 30° 10′ 46″ N 97° 40′ 50″ W GRND: CENTRAL (UTC + 541 BARO: 541 6) ELEMENT MAT FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC YEAR 99.5 MEAN DAILY MAXIMUM 92.5 93.5 83.7 77.5 68.0 HIGHEST DAILY MAXIMUM 98 105 100 93 86 83 DATE OF OCCURRENCE 03 31 20 20 14+ 22 71.3 71.8 MEAN DAILY MINIMUM 63.8 51.6 44.2 36.4 45 37 2.7 19 LOWEST DAILY MINIMUM 67 66 DATE OF OCCURRENCE 25 31 23 21 26 06 AVERAGE DRY BULB 78.7 81.9 85.7 67.7 60.9 52.2 MEAN WET BULB 74.9 74.8 68.1 59.5 53.9 45.7 MEAN DEW POINT 72.5 69.9 62.0 54.3 48.2 37.5 NUMBER OF DAYS WITH: MAXIMUM ≥ 90° 26 31 2.5 Λ Λ MAXIMUM ≤ 32° 0 0 0 0 0 Λ MINIMUM ≤ 32 0 0 0 0 4 15 MINIMUM ≤ 0 Ω 0 0 0 0 Ω 65 HEATING DEGREE DAYS Λ Λ 138 405 COOLING DEGREE DAYS 534 645 419 156 23 17 MEAN (PERCENT) 78 64 69 70 62 HOUR 00 LST 93 79 76 86 87 71 HOUR 06 LST 98 93 89 93 92 79 Æ HOUR 12 LST 59 44 43 47 47 47 HOUR 18 LST 38 48 51 49 38 PERCENT POSSIBLE SUNSHINE 68 85 90 85 84 72 NUMBER OF DAYS WITH: 0 HEAVY FOG(VISBY ≤ 1/4 MI) 0 0 THUNDERSTORMS 12 1 1 1 SUNRISE-SUNSET: (OKTAS) CEILOMETER (\leq 12,000 FT.) SATELLITE (> 12,000 FT.) CLOUDINESS MIDNIGHT-MIDNIGHT: (OKTAS) CEILOMETER ($\leq 12,000$ FT.) SATELLITE (> 12,000 FT.) NUMBER OF DAYS WITH: CLEAR PARTLY CLOUDY CLOUDY 29.36 29.38 29.50 29.59 29.56 29.91 29.93 30.06 30.16 30.14 MEAN STATION PRESS. (IN.) 29.44 MEAN SEA-LEVEL PRESS. (IN. 29.99 RESULTANT SPEED (MPH) 2.6 2.3 0.8 0.5 1.4 RES. DIR. (TENS OF DEGS.) MEAN SPEED (MPH) 15 20 28 15 13 36 5.5 7.0 6.5 6.4 6.1 8.1 PREVAIL.DIR.(TENS OF DEGS.) 18 18 20 18 18 33 MAXIMUM 2-MINUTE WIND: SPEED (MPH) 28 29 25 32 29 31 DIR. (TENS OF DEGS.) 17 05 01 35 02 17 DATE OF OCCURRENCE 04 04 03 29 17 0.2 MAXIMUM 5-SECOND WIND: 32 30 39 SPEED (MPH) 38 36 36 DIR. (TENS OF DEGS.) 17 05 01 31 01 19 DATE OF OCCURRENCE 04 0.3 29 17 02 04 WATER EQUIVALENT: TOTAL (IN.) 5.34 1.03 0.47 1.57 0.08 0.69 GREATEST 24-HOUR (IN.) 3.18 1.02 0.46 0.78 0.08 0.24 DATE OF OCCURRENCE 10-11 03 28 30 24-25 20 NUMBER OF DAYS WITH: PRECIPITATION ≥ 0.01 11 2 4 PRECIPITATION ≥ 0.10 8 1 0 4 PRECIPITATION ≥ 1.00 1 1 n 0 0 0 SNOW, ICE PELLETS, HAIL: TOTAL (IN.) 0.0 GREATEST 24-HOUR (IN.) 0.0 DATE OF OCCURRENCE MAXIMUM SNOW DEPTH (IN.) 0 0 0 0 0 0 DATE OF OCCURRENCE NUMBER OF DAYS WITH:

SNOWFALL ≥ 1.0

0

NORMALS, MEANS, AND EXTREMES

AUSTIN/BERGSTROM, TX (AUS)

LATITUDE: LONGITUDE: ELEVATION (FT): TIME ZONE: WBAN: 13904 $30\degree$ 10' 46" N97° 40′ 50″ W GRND: 541 CENTRAL (UTC + 6) 541 BARO: OCT POR MAR APR MAY JUN JUL SEP NOV DEC ELEMENT JAN FEB AUG YEAR 58.9 95.0 95.5 90.5 82.1 62.0 78.9 NORMAL DAILY MAXIMUM 30 63.4 71.9 79.4 84.7 91.1 71.8 93.5 MEAN DAILY MAXIMUM 92.5 99.5 83.7 77.5 HIGHEST DAILY MAXIMUM 105 100 93 86 83 YEAR OF OCCURRENCE 1999 1999 1999 1999 MEAN OF EXTREME MAXS. 98.0 105.0 100.0 93.0 86.0 83.0 NORMAL DAILY MINIMUM 30 38.6 42.1 51.1 59.8 66.5 71.5 73.9 73.9 69.8 60.0 49.9 41.2 58.2 MEAN DAILY MINIMUM 71.3 71.8 63.8 51.6 44.2 36.4 LOWEST DAILY MINIMUM YEAR OF OCCURRENCE MEAN OF EXTREME MINS. 67.0 66.0 45.0 37.0 27.0 19.0 80.2 NORMAL DRY BULB 30 48.8 52.8 61.5 69.6 75.6 81.3 84.5 84.8 71.1 60.9 51.6 68.6 78.7 67.7 81.9 85.7 60.9 52.2 MEAN DRY BULB MEAN WET BULB 59.5 74.9 74.8 68.1 53.9 45.7 MEAN DEW POINT 0 72.5 62.0 54.3 37.5 69.9 48.2 NORMAL NO. DAYS WITH: MAXIMUM ≥ 90° 30 0.1 0.6 1.7 20.8 27.8 28.2 17.0 3.7 0.0 0.0 106.6 6.7 MAXIMUM ≤ 32° 30 0.6 0.2 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.3 1.1 MINIMUM ≤ 32° 8.7 30 4.6 1.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.8 5.8 20.9 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 NORMAL HEATING DEG. DAYS 514 353 175 28 0 17 175 426 1688 329 489 605 614 456 206 NORMAL COOLING DEG. DAYS 30 12 11 66 166 52 1.0 3016 70 3.0 71 NORMAL (PERCENT) 67 66 64 66 65 64 68 67 69 68 67 HOUR 00 LST 30 72 72 71 74 81 80 75 73 78 75 76 73 75 HOUR 06 LST 30 78 80 80 82 88 29 88 86 86 84 82 80 84 57 HOUR 12 LST 30 60 59 56 60 56 51 50 55 55 58 59 56 HOUR 18 LST 3 0 57 52 49 52 57 52 47 46 54 54 5.8 58 53 PERCENT POSSIBLE SUNSHINE 68 85 90 85 84 72 MEAN NO. DAYS WITH: HEAVY FOG(VISBY≤1/4 MI) 3.0 0.0 0.0 0.0 7.0 1.0 THUNDERSTORMS 12.0 1.0 2.0 1.0 0.0 1.0 MEAN: CLOUDINESS SUNRISE-SUNSET (OKTAS) MIDNIGHT-MIDNIGHT (OKTAS) MEAN NO. DAYS WITH: CLEAR PARTLY CLOUDY CLOUDY 29.44 | 29.36 | 29.38 | 29.50 | 29.59 | 29.56 MEAN STATION PRESSURE(IN) MEAN SEA-LEVEL PRES. (IN) 29.99 | 29.91 | 29.93 | 30.06 | 30.16 | 30.14 MEAN SPEED (MPH) 5.5 7.0 6.1 8.1 6.5 PREVAIL.DIR(TENS OF DEGS) MAXIMUM 2-MINUTE: SPEED (MPH) 29 28 29 DIR. (TENS OF DEGS) 05 01 35 17 17 0.2 YEAR OF OCCURRENCE 1999 1999 1999 1999 1999 1999 MAXIMUM 5-SECOND: SPEED (MPH) 32 38 30 39 36 DIR. (TENS OF DEGS) 01 05 YEAR OF OCCURRENCE 1999 1999 1999 1999 1999 1999 NORMAL (IN) 30 1.71 2.17 1.87 2.56 4.78 3.72 2.04 2.05 3.30 MAXIMUM MONTHLY (IN) 1.03 0.47 0.69 5.34 0.08 5.34 YEAR OF OCCURRENCE 1999 1999 1999 1999 1999 1999 JUL 1999 MINIMUM MONTHLY (IN) 0.00 YEAR OF OCCURRENCE DEC 0.24 3.18 MAXIMUM IN 24 HOURS (IN) 3.18 1.02 0.46 0.78 0.08 1999 1999 YEAR OF OCCURRENCE 1999 1999 1999 1999 JUL 1999 NORMAL NO. DAYS WITH: PRECIPITATION ≥ 0.01 30 7.3 6.8 7.3 6.9 9.3 6.8 4.9 5.2 7.7 6.7 7.2 7.4 83.5 PRECIPITATION > 1.003.0 0.5 8.7 0.3 0.4 0.4 0.8 1.4 1.2 0.6 1.0 1.1 0.6 0.4 NORMAL (IN) 3 0 0.4 0.5 0.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.1 т 1.1 MAXIMUM MONTHLY (IN) YEAR OF OCCURRENCE MAXIMUM IN 24 HOURS (IN) YEAR OF OCCURRENCE MAXIMUM SNOW DEPTH (IN) YEAR OF OCCURRENCE 0 NORMAL NO. DAYS WITH: SNOWFALL ≥ 1.0 0.2 0. * 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.4 3.0 0.1 0.1

PRECIPITATION (inches) 1999 AUSTIN/BERGSTROM, TX (AUS)

| YEAR | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | ANNUAL |
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| 1999 | | | | | | | 5.34 | 1.03 | 0.47 | 1.57 | 0.08 | 0.69 | |
| POR= YRS | | | | | | | 5.34 | 1.03 | 0.47 | 1.57 | 0.08 | 0.69 | |

WBAN: 13904 AVERAGE TEMPERATURE (°F) 1999 AUSTIN/BERGSTROM, TX (AUS)

| AVERAGE TEMPERATURE (F) 1999 AUSTIN/BERGSTROM, TX (AUS) | | | | | | | | | | | | | |
|---|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|--------|
| YEAR | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | ANNUAL |
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| 1999 | | | | | | | 81.9 | 85.7 | 78.7 | 67.7 | 60.9 | 52.2 | |
| POR= YRS | | | | | | | 81.9 | 85.7 | 78.7 | 67.7 | 60.9 | 52.2 | |

HEATING DEGREE DAYS (base 65°F) 1999 AUSTIN/BERGSTROM, TX (AUS)

| YEAR | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | TOTAL |
|------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|
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| 1998-99 | | | | | | | | | | | | | |
| 1998-99 1999- | 0 | 0 | 1 | 65 | 138 | 405 | | | | | | | |

COOLING DEGREE DAYS (base 65°F) 1999 AUSTIN/BERGSTROM, TX (AUS)

| YEAR | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | ANNUAL |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------|
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| 1999 | | | | | | | 534 | 645 | 419 | 156 | 23 | 17 | |

| YEAR | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | TOTAL |
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| 1998-99 | | | | | | | | | | | | | |
| 1998-99 | 0.0 | | | | | | | | | | | | |
| POR= YRS | 0.0 | | | | | | | | | | | | |

WBAN: 13904

REFERENCE NOTES:

THE TEMPERATURE GRAPH SHOWS NORMAL MAXIMUM AND NORMAL MINIMUM DAILY TEMPERATURES (SOLID CURVES) AND THE ACTUAL DAILY HIGH AND LOW TEMPERATURES (VERTICAL BARS).

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).

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.

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. 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.

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.

1999 AUSTIN/BERGSTROM, TEXAS (AUS)

Austin, capital of Texas, is located on the Colorado River where the stream crosses the Balcones escarpment separating the Texas Hill Country from the Blackland Prairies to the east. Elevations within the city vary from 400 feet to nearly 1,000 feet above sea level. Native trees include cedar, oak, walnut, mesquite, and pecan.

The climate of Austin is humid subtropical with hot summers. Winters are mild, with below freezing temperatures occurring on an average of about 25 days each year. Rather strong northerly winds, accompanied by sharp drops in temperature, frequently occur during the winter months in connection with cold fronts, but cold spells are usually of short duration, seldom lasting more than two days. Daytime temperatures in summer are hot, but summer nights are usually pleasant.

Precipitation is fairly evenly distributed throughout the year, with heaviest amounts occurring in late spring. A secondary rainfall peak occurs in September, primarily because of tropical cyclones that migrate out of the Gulf of Mexico. Precipitation from April through

September usually results from thunderstorms, with fairly large amounts of rain falling within short periods of time. While thunderstorms and heavy rains may occur in all months of the year, most of the winter precipitation consists of light rain. Snow is insignificant as a source of moisture, and usually melts as rapidly as it falls. The city may experience several seasons in succession with no measurable snowfall.

Prevailing winds are southerly, however in winter, northerly winds are about as frequent as those from the south. Destructive winds and damaging hailstorms are infrequent. On rare occasions dissipating tropical storms produce strong winds and heavy rains in the area. Blowing dust occurs occasionally in spring, but visibility rarely drops substantially, and then only for a few hours.

The average length of the warm season (freeze-free period) is 273 days. The average occurrence of the last temperature of 32 degrees in spring is early March and the average occurrence of the first temperature of 32 degrees is late November.

| 1 | | | | | | | | | | | | | | | | | AUSTIN-BERGSTROM, TEXAS |
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| Subscription: | LOCATION | OCCUPIED FROM | OCCUPIED | AIRLINE DISTANCES AND DIRECTIONS FROM PREVIOUS LOCATION | | | G R O U N D | N D | I | PSYCHROMETER | SUNSHINE SWITCH | RAIN GAGE TIPPING BUCKET | A I N | INCH RAIN G | HYGROTHERMOMETER | MATHC OBSERVE | S = ASOS W = AWOS REMARKS |
| SUBSCRIPTION: | Austin-Bergstrom | 10/02/97 | Present | NA | 30°11' | 97°41' | 541 | | | | | | | | | S | ASOS Commissioned 10/02/97 |
| | SIBSORTOTION: | ormation a | vailable v | through: Na | tional C | imatic | Data Ce | pnte | Co Fee | dera | 1 Bu | ildi | ng, | Ashev | ille | , No: | rth Carolina 28801. |

National Climatic Data Center 151 Patton Avenue, Rm 120 Asheville NC 28801-5001

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