

Local Climatological Data

Champaign-Urbana, IL - 118740

Illinois State Water Survey
Water Survey Research Center

December 2005

| DATE | TEMPERATURE | | | PRECIP (in) | SNOW (in) | | WEATHER TYPES | WIND | | | | DEGREE DAYS | |
|----------------|-------------|-------------|-------------|--------------|-------------|-------|--------------------|----------|-------------|-----------|----------|-------------|----------|
| | Max | Min | Mean | | Amnt | Depth | | Dir | Speed (mph) | Peak Gust | Gust Dir | Heat | Cool |
| 1 | 31 | 14 | 23 | 0.11 | 2.2 | 2 | S, SW- | | M | M | | 42 | 0 |
| 2 | 22 | 11 | 17 | 0.01 | 0.3 | 1 | SW- | W | 4.9 | 14.9 | W | 48 | 0 |
| 3 | 31 | 20 | 26 | 0.00 | 0.0 | 1 | | E | 3.6 | 12.4 | E | 39 | 0 |
| 4 | 27 | 13 | 20 | 0.06 | 0.4 | 2 | ZR-,IP-,S- | NW | 4.9 | 18.4 | W | 45 | 0 |
| 5 | 17 | 6 | 12 | 0.00 | 0.0 | 1 | | NW | 3.5 | 12.4 | NW | 53 | 0 |
| 6 | 22 | 7 | 15 | T | T | 1 | SW- | E | 3.2 | 13.5 | NW | 50 | 0 |
| 7 | 15 | 1 | 8 | 0.01 | 0.2 | 1 | SW- | NE | 3.6 | 13.8 | NW | 57 | 0 |
| 8 | 24 | 9 | 17 | 0.00 | 0.0 | 1 | | E | 6.5 | 27.5 | W | 48 | 0 |
| 9 | 15 | 2 | 9 | 0.31 | 5.6 | 7 | | | M | M | | 56 | 0 |
| 10 | 34 | 5 | 20 | 0.00 | 0.0 | 7 | | | M | M | | 45 | 0 |
| 11 | 35 | 24 | 30 | T | 0.1 | 6 | | | M | M | | 35 | 0 |
| 12 | 32 | 24 | 28 | T | T | 4 | S- | NE | 2.5 | 8.3 | W | 37 | 0 |
| 13 | 29 | 23 | 26 | T | T | 4 | S-- | SE | 3.2 | 11.2 | SE | 39 | 0 |
| 14 | 36 | 29 | 33 | 0.07 | 1.0 | 5 | S, F | SE | 7.0 | 20.0 | SE | 32 | 0 |
| 15 | 38 | 24 | 31 | T | T | 3 | S-,ZR-, IP-, L-, F | SW | 4.7 | 20.1 | W | 34 | 0 |
| 16 | 31 | 18 | 25 | T | 0.1 | 2 | SW- | W | 9.0 | 27.5 | W | 40 | 0 |
| 17 | 31 | 12 | 22 | T | T | 2 | SW- | SW | 3.1 | 12.3 | W | 43 | 0 |
| 18 | 19 | 8 | 14 | 0.01 | 0.3 | 2 | S- | NW | 4.5 | 12.6 | NW | 51 | 0 |
| 19 | 16 | 3 | 10 | T | T | 2 | SW- | W | 5.5 | 17.4 | W | 55 | 0 |
| 20 | 29 | 4 | 17 | 0.00 | 0.0 | 2 | | SW | 5.0 | 14.5 | W | 48 | 0 |
| 21 | 30 | 11 | 21 | 0.00 | 0.0 | 2 | F(pm) | W | 4.7 | 15.0 | W | 44 | 0 |
| 22 | 41 | 10 | 26 | 0.00 | 0.0 | 2 | F(AM) | | M | M | | 39 | 0 |
| 23 | 47 | 33 | 40 | 0.00 | 0.0 | 1 | F(AM) | S | 6.9 | 17.5 | S | 25 | 0 |
| 24 | 39 | 33 | 36 | T | 0.0 | T | RW-, F(AM,PM) | SE | 2.1 | 8.8 | S | 29 | 0 |
| 25 | 37 | 33 | 35 | 0.09 | 0.0 | 0 | RW-, F(AM) | N | 8.6 | 21.5 | NW | 30 | 0 |
| 26 | 34 | 31 | 33 | 0.01 | T | 0 | RW-, SW- | W | 6.0 | 14.2 | N | 32 | 0 |
| 27 | 52 | 30 | 41 | T | T | 0 | SW-, F(PM) | SE | 5.3 | 17.8 | S | 24 | 0 |
| 28 | 48 | 33 | 41 | 0.03 | 0.0 | 0 | RW-, L-, F(AM) | NW | 6.8 | 21.3 | N | 24 | 0 |
| 29 | 37 | 33 | 35 | 0.81 | 0.0 | 0 | TRW, RW, L-, F(A | NW | 4.4 | 14.0 | NW | 30 | 0 |
| 30 | 38 | 32 | 35 | 0.00 | 0.0 | 0 | | S | 7.1 | 18.1 | S | 30 | 0 |
| 31 | 37 | 29 | 33 | 0.34 | 1.0 | T | SW, RW- | W | 7.3 | 20.5 | NW | 32 | 0 |
| AVG/TOT | 31.4 | 18.2 | 24.8 | 1.86 | 11.2 | | | W | 5.2 | | | 1236 | 0 |
| DEP. | -5.4 | -4.0 | -4.7 | -0.90 | +5.1 | | | W | -2.2 | | | +138 | 0 |

NUMBER OF DAYS and DEPARTURE

| | | | | | | | | | | | | | | |
|-------|----------|------|------|-----|----------|-------|-------|-------|---------------|--|--|--|--|-------|
| | MAX TEMP | | | | MIN TEMP | | | | PRECIPITATION | | | | | SNOW |
| | >=90 | <=32 | <=32 | <=0 | >T | >=.01 | >=.10 | >=.50 | >=1.00 | | | | | >=1.0 |
| TOTAL | 0 | 17 | 26 | 0 | 22 | 12 | 4 | 1 | 0 | | | | | 4 |
| DEP | 0 | +7 | 0 | -2 | +1 | -2 | -1 | -1 | -1 | | | | | +2 |

| | | | | | | | | | | | | | | |
|-------|---------------|---|----|----|----|---|----|----|---|---|----------------------|---------|---------------|--------------|
| | WEATHER TYPES | | | | | | | | | | SEASONAL DEGREE DAYS | | PRECIPITATION | |
| | R | L | S | Z | IP | A | T | F | D | H | BS | HEATING | COOLING | JAN-December |
| TOTAL | 6 | 3 | 18 | 2 | 2 | 0 | 1 | 10 | 0 | 0 | 0 | 2209 | 1304 | 36.38 |
| DEP | -2 | 0 | +9 | -1 | 0 | 0 | +4 | ■ | ■ | ■ | | -31 | +318 | -4.67 |

Averages based on 1971-2000 data.

Temp midnight-midnight, Precip and Snow at 8 am LST

M = Missing

WEATHER TYPES:

R = Rain Z = Freezing rain/drizzle D = Dust
 L = Drizzle IP = Ice pellets (sleet) H = Haze
 S = Snow A = Hail BS = Blowing snow
 T = Thunder F = Fog RW = Rainshower SW = Snowshower

PRECIP INTENSITY

- Light Precip amount "T" =Trace
 Moderate
 + Heavy

DEGREE DAYS: Heat and Cool base 65F. Corn Growing base 50F, ceiling 86F. Heating DD season July-June. Cool and Corn DD season January-December.

WIND: DIR is the 24 hr prevailing direction (greatest number of hours). Speed is the daily average of 24 hourly average wind speeds.

Champaign-Urbana Weather Highlights – December 2005

ILLINOIS STATE WATER SURVEY

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Temperature – ranged from 52°F on December 27 to 1°F on December 7. The monthly average high temperature of 31.4°F was the 11th coldest for December since 1888. The monthly average low temperature of 18.2°F was the 20th coldest for December. The monthly average mean temperature of 24.8°F was the 17th coldest for December.

Precipitation – no daily records were set this month. Precipitation was below normal but not significantly dry in the rankings (49th driest). Snowfall was 11.2 inches (5.1 inches above normal) and was the 12th snowiest December on record since snowfall records began in 1903.

Observer's Note – the wind statistics reported here and on the voicemail recording are not part of the climatic archive maintained by this office. They are from another Water Survey network co-located with our site (see below). We do not have all the wind statistics for five days in December at this time. When they are processed, we will provide an update on the web at <http://www.sws.uiuc.edu/atmos/statecli/Champ-Urb/CU.htm>.

Additional Information

Additional information for December can be found at the Illinois Climate Network site that is collocated with our cooperative weather observer site. This automated station collects temperature, wind, soil temperature, evaporation, humidity, and solar radiation data. These data are usually posted a few days after the end of the month at:

<http://www.sws.uiuc.edu/warm/data/2005/December/Champaign.txt>

JRA

The daily climate statistics are available by touch-tone phone. Call 333-8890 and select menu option 1. The recording is updated daily Monday through Friday by 8:30 a.m. For this and other climate data, visit the State Climatologist web site at <http://www.sws.uiuc.edu/atmos/statecli/>