

Local Climatological Data  
Champaign-Urbana, IL - 118740

Illinois State Water Survey  
Water Survey Research Center

February 2004

| DATE           | TEMPERATURE |             |             | PRECIP (in)  | SNOW (in)   |       | WEATHER TYPES    | WIND      |             |           |          | SKY COVER | DEGREE DAYS |          |
|----------------|-------------|-------------|-------------|--------------|-------------|-------|------------------|-----------|-------------|-----------|----------|-----------|-------------|----------|
|                | Max         | Min         | Mean        |              | Amnt        | Depth |                  | Dir       | Speed (mph) | Peak Gust | Gust Dir |           | Heat        | Cool     |
| 1              | 32          | 9           | 21          | 0.00         | 0.0         | 3     |                  | E         | 2.7         | 12.7      | E        | CLR       | 44          | 0        |
| 2              | 34          | 26          | 30          | 0.17         | 0.5         | 3     | R-,S-,IP-,ZR-,F  | SE        | 5.2         | 17.5      | W        | CLDY      | 35          | 0        |
| 3              | 32          | 10          | 21          | 0.03         | 0.4         | 4     | SW-              | W         | 11.5        | 26.0      | W        | PC        | 44          | 0        |
| 4              | 27          | 7           | 17          | 0.00         | 0.0         | 3     |                  | NE        | 4.0         | 12.7      | NE       | PC        | 48          | 0        |
| 5              | 32          | 24          | 28          | 0.15         | 0.6         | 3     | R-,L-,S-,IP-,ZR- | E         | 4.4         | 18.5      | NE       | CLDY      | 37          | 0        |
| 6              | 32          | 23          | 28          | 0.03         | 0.4         | 4     | S-               | W         | 8.1         | 20.5      | W        | CLDY      | 37          | 0        |
| 7              | 24          | 17          | 21          | 0.05         | 0.8         | 5     | S-,SW-           | W         | 9.4         | 18.6      | W        | CLDY      | 44          | 0        |
| 8              | 28          | 12          | 20          | 0.00         | 0.0         | 5     |                  | S         | 7.8         | 25.9      | S        | CLDY      | 45          | 0        |
| 9              | 33          | 24          | 29          | 0.00         | 0.0         | 4     |                  | SW        | 10.0        | 23.7      | SW       | PC        | 36          | 0        |
| 10             | 30          | 13          | 22          | 0.00         | 0.0         | 4     |                  | W         | 7.2         | 26.8      | W        | PC        | 43          | 0        |
| 11             | 39          | 11          | 25          | 0.00         | 0.0         | 4     |                  | SW        | 5.2         | 19.6      | S        | CLR       | 40          | 0        |
| 12             | 27          | 17          | 22          | T            | T           | 2     | SW-              | W         | 7.0         | 16.4      | NW       | CLDY      | 43          | 0        |
| 13             | 30          | 18          | 24          | T            | T           | 2     | SW-              | SW        | 8.8         | 19.0      | SW       | PC        | 41          | 0        |
| 14             | 38          | 19          | 29          | 0.00         | 0.0         | 2     |                  | W         | 5.9         | 14.8      | NE       | CLR       | 36          | 0        |
| 15             | 29          | 15          | 22          | 0.00         | 0.0         | 1     |                  | NE        | 7.3         | 20.6      | NE       | CLR       | 43          | 0        |
| 16             | 33          | 11          | 22          | 0.00         | 0.0         | T     |                  | E         | 2.5         | 9.4       | SE       | CLR       | 43          | 0        |
| 17             | 40          | 19          | 30          | 0.00         | 0.0         | T     |                  | W         | 2.7         | 12.3      | W        | PC        | 35          | 0        |
| 18             | 46          | 18          | 32          | 0.00         | 0.0         | T     | F                | SW        | 6.1         | 18.3      | SW       | CLR       | 33          | 0        |
| 19             | 53          | 32          | 43          | 0.00         | 0.0         | T     |                  | S         | 5.7         | 16.7      | S        | PC        | 22          | 0        |
| 20             | 50          | 34          | 42          | 0.09         | 0.0         | 0     | RW-              | W         | 13.9        | 32.5      | W        | CLDY      | 23          | 0        |
| 21             | 38          | 28          | 33          | T            | T           | 0     | SW-              | W         | 7.5         | 21.5      | W        | CLDY      | 32          | 0        |
| 22             | 47          | 26          | 37          | 0.00         | 0.0         | 0     |                  | SE        | 3.8         | 14.4      | SW       | PC        | 28          | 0        |
| 23             | 44          | 35          | 40          | 0.02         | 0.0         | 0     | RW-              | SE        | 5.2         | 16.8      | NW       | CLDY      | 25          | 0        |
| 24             | 39          | 31          | 35          | 0.00         | 0.0         | 0     |                  | NE        | 7.2         | 23.6      | NE       | CLDY      | 30          | 0        |
| 25             | 45          | 28          | 37          | 0.00         | 0.0         | 0     |                  | NE        | 6.8         | 16.8      | E        | CLR       | 28          | 0        |
| 26             | 46          | 27          | 37          | 0.00         | 0.0         | 0     |                  | NE        | 5.7         | 15.0      | NE       | CLR       | 28          | 0        |
| 27             | 51          | 26          | 39          | 0.00         | 0.0         | 0     |                  | E         | 2.9         | 10.4      | E        | CLR       | 26          | 0        |
| 28             | 57          | 28          | 43          | 0.00         | 0.0         | 0     |                  | SE        | 4.3         | 14.8      | S        | CLR       | 22          | 0        |
| 29             | 61          | 35          | 48          | 0.02         | 0.0         | 0     | RW-              | SE        | 6.2         | 21.6      | S        | PC        | 17          | 0        |
| <b>AVG/TOT</b> | <b>38.5</b> | <b>21.5</b> | <b>30.0</b> | <b>0.56</b>  | <b>2.7</b>  |       |                  | <b>W</b>  | <b>6.4</b>  |           |          |           | <b>1008</b> | <b>0</b> |
| <b>DEP.</b>    | <b>+0.9</b> | <b>-0.2</b> | <b>+0.3</b> | <b>-1.45</b> | <b>-2.8</b> |       |                  | <b>NW</b> | <b>-1.1</b> |           |          |           | <b>+21</b>  | <b>0</b> |

NUMBER OF DAYS and DEPARTURE

|       | MAX TEMP |      |      |     | MIN TEMP |       |       |       | PRECIPITATION |       |     |    |      | SNOW | SKY COVER |  |  |
|-------|----------|------|------|-----|----------|-------|-------|-------|---------------|-------|-----|----|------|------|-----------|--|--|
|       | >=90     | <=32 | <=32 | <=0 | >        | >=.01 | >=.10 | >=.50 | >=1.00        | >=1.0 | CLR | PC | CLDY |      |           |  |  |
| TOTAL | 0        | 11   | 26   | 0   | 11       | 8     | 2     | 0     | 0             | 0     | 10  | 9  | 10   |      |           |  |  |
| DEP   | 0        | +1   | +3   | -2  |          | -1    | -3    | -1    | 0             | -2    | +2  | +2 | -3   |      |           |  |  |

|       | WEATHER TYPES |    |    |   |    |    |   |   |   |   |    | SEASONAL DEGREE DAYS |         | PRECIPITATION |
|-------|---------------|----|----|---|----|----|---|---|---|---|----|----------------------|---------|---------------|
|       | R             | L  | S  | Z | IP | A  | T | F | D | H | BS | HEATING              | COOLING | JAN-February  |
| TOTAL | 5             | 1  | 8  | 2 | 2  | 0  | 0 | 2 | 0 | 0 | 0  | 4274                 | 0       | 2.74          |
| DEP   | 0             | -2 | -1 | 0 | 0  | -2 |   |   |   |   |    | -212                 | 0       | -1.16         |

Averages based on 1971-2000 data. The daily sky condition is determined by the prevailing sky condition of three observations made between 7am and 7pm LST. Snow depth at 7am LST. All other data midnight-midnight. 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.

# Champaign-Urbana Weather Highlights – February 2004

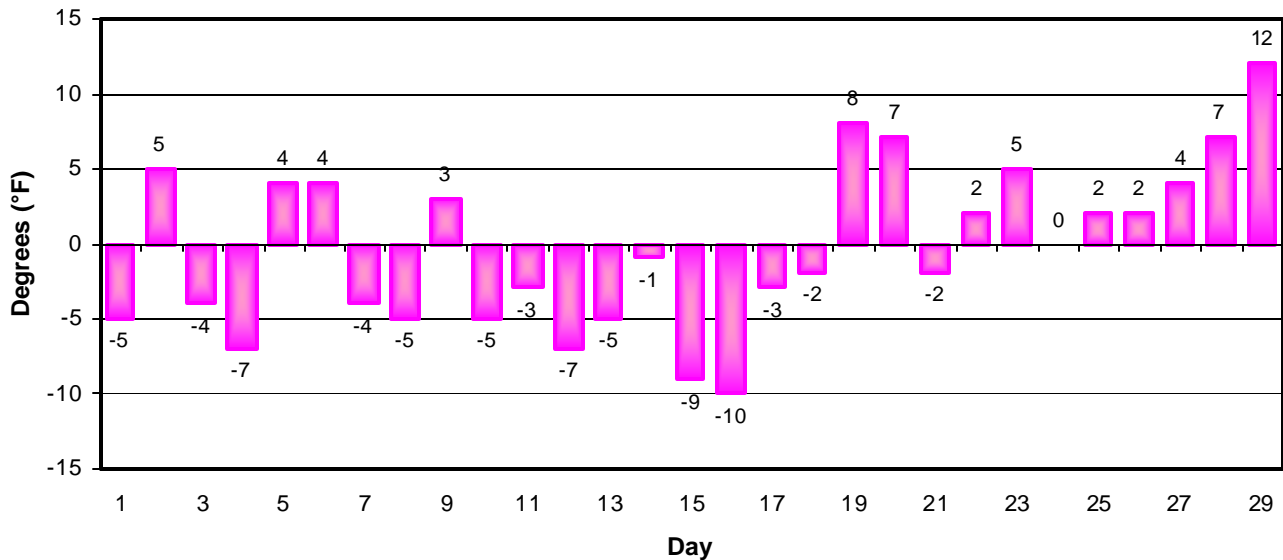
## ILLINOIS STATE WATER SURVEY

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With temperatures close to the historical averages and no new temperature records set or tied during the month, February 2004 was very normal. The average temperature of 30.0 degrees Fahrenheit tied the month with 1918 as the 38<sup>th</sup> warmest February on record.

On the precipitation side, February 2004 was a dry month with the monthly precipitation total of 0.56 inches ranking it as the 10<sup>th</sup> driest February since 1888. The majority of the precipitation came during the first week of the month as several systems moved through the area and no measurable snowfall was reported after February 7<sup>th</sup>. However, people may remember it as a snowier month because, with some colder temperatures during the middle of the month, the snow on the ground remained until February 19<sup>th</sup>. The monthly snowfall total of 2.7 inches ties February 2004 with February 1955 and February 1999 as the 22<sup>nd</sup> least snowy February since 1903. No new precipitation or snowfall records were set or tied during the month.

**February 2004 Mean Daily Temperature Departures from Normal**



| Winter Statistics   | Dec 2003 – Feb 2004 | Departure from Average | Ranking                                      |
|---------------------|---------------------|------------------------|--|
| Maximum Temperature | 36.8° F             | +1.3° F                | 36 <sup>th</sup> warmest (tie w/1956)        |
| Minimum Temperature | 21.3° F             | +1.1° F                | 37 <sup>th</sup> warmest (tie w/ 1930, 1956) |
| Mean Temperature    | 29.1° F             | +1.2° F                | 32 <sup>nd</sup> warmest (tie w/1928, 1956 ) |
| Precipitation       | 5.85 inches         | -0.81 inches           | 49 <sup>th</sup> driest                      |
| Snowfall            | 13.5 inches         | -6.7 inches            | 41 <sup>st</sup> driest                      |

### MCP

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 8:00 a.m. For this and other climate data, visit the State Climatologist web site at <http://www.sws.uiuc.edu/atmos/statecli/>