



Champaign-Urbana Weather Highlights – February 2009

Jim Angel, state climatologist

Temperatures ranged from a high of 62°F on February 9 and 10 to a low of -2°F on February 5. After an exceptionally cold December (3.4°F below normal) and January (5.6°F below normal), February finished 2.9°F above normal.

In climatology we define "winter" as the three coldest months of the year – December, January and February. This year the average winter temperature was 25.4°F, 2.5°F below normal.

Precipitation for February was 1.68 inches, 0.33 inches below normal. Winter precipitation was 7.25 inches, 0.59 inches above normal.

Snowfall for February was only 2.0 inches, 3.5 inches below normal. Winter (December-February) snowfall was 16.1 inches, 4.1 inches below normal. However, we may see some snow as early as late October and as late as early April. Therefore, the "snowfall season" extends out beyond the core winter months defined earlier. When the 2.4 inches in November is included, then this season's snowfall total is 18.5 inches, 3.9 inches below normal through the end of February.

Additional Information

Additional information for February 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. Usually, these data are posted several days after the end of the month at:

<http://www.sws.uiuc.edu/warm/data/2009/February/Champaign.txt>.

For detailed rainfall reports, check out the new volunteer raingage network in Illinois called the Community Collaborative Rain, Hail and Snow Network (CoCoRaHS) at:

<http://www.cocorahs.com/>.

For more information on the climate of Illinois, visit the web site at:

<http://www.isws.illinois.edu/atmos/statecli/>.

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Illinois State Water Survey
Water Survey Research Center

February 2009

| 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 | 41 | 25 | 33 | 0.00 | 0.0 | 4 | | M | M | | | 32 | 0 |
| 2 | 31 | 10 | 21 | 0.00 | 0.0 | 3 | | M | M | | | 44 | 0 |
| 3 | 21 | 2 | 12 | 0.05 | 1.1 | 4 | SW | M | M | | | 53 | 0 |
| 4 | 17 | -1 | 8 | T | T | 4 | SW- | M | M | | | 57 | 0 |
| 5 | 25 | -2 | 12 | 0.00 | 0.0 | 3 | | M | M | | | 53 | 0 |
| 6 | 44 | 16 | 30 | 0.00 | 0.0 | 3 | | M | M | | | 35 | 0 |
| 7 | 59 | 41 | 50 | 0.00 | 0.0 | T | | M | M | | | 15 | 0 |
| 8 | 44 | 30 | 37 | 0.00 | 0.0 | 0 | F(PM) | M | M | | | 28 | 0 |
| 9 | 62 | 32 | 47 | 0.00 | 0.0 | 0 | H | M | M | | | 18 | 0 |
| 10 | 62 | 48 | 55 | 0.14 | 0.0 | 0 | H,RW- | M | M | | | 10 | 0 |
| 11 | 59 | 36 | 48 | 0.79 | 0.0 | 0 | RW-,RW,F(AM) | M | M | | | 17 | 0 |
| 12 | 49 | 30 | 40 | 0.32 | 0.0 | 0 | RW+,RW- | M | M | | | 25 | 0 |
| 13 | 45 | 24 | 35 | 0.00 | 0.0 | 0 | | M | M | | | 30 | 0 |
| 14 | 33 | 25 | 29 | 0.02 | 0.4 | T | L,SW- | M | M | | | 36 | 0 |
| 15 | 33 | 22 | 28 | 0.00 | 0.0 | 0 | | M | M | | | 37 | 0 |
| 16 | 36 | 18 | 27 | 0.00 | 0.0 | 0 | | M | M | | | 38 | 0 |
| 17 | 39 | 23 | 31 | 0.00 | 0.0 | 0 | | M | M | | | 34 | 0 |
| 18 | 44 | 27 | 36 | 0.04 | 0.0 | 0 | RW- | M | M | | | 29 | 0 |
| 19 | 27 | 15 | 21 | T | 0.4 | T | RW-,SW- | M | M | | | 44 | 0 |
| 20 | 31 | 13 | 22 | T | T | 0 | SW- | M | M | | | 43 | 0 |
| 21 | 36 | 20 | 28 | T | 0.1 | T | SW-,F(AM) | M | M | | | 37 | 0 |
| 22 | 29 | 12 | 21 | T | T | 0 | SW- | M | M | | | 44 | 0 |
| 23 | 33 | 12 | 23 | 0.00 | 0.0 | 0 | | M | M | | | 42 | 0 |
| 24 | 42 | 21 | 32 | 0.00 | 0.0 | 0 | | M | M | | | 33 | 0 |
| 25 | 59 | 29 | 44 | 0.00 | 0.0 | 0 | | M | M | | | 21 | 0 |
| 26 | 57 | 36 | 47 | 0.01 | 0.0 | 0 | F(AM), R- | M | M | | | 18 | 0 |
| 27 | 45 | 24 | 35 | 0.31 | T | 0 | F(AM),RW,TRW+, | M | M | | | 30 | 0 |
| 28 | 32 | 21 | 27 | T | T | 0 | SW- | M | M | | | 38 | 0 |
| AVG/TOT | 40.5 | 21.8 | 31.2 | 1.68 | 2.0 | | | | | | | 941 | 0 |
| DEP. | +2.9 | +0.1 | +1.5 | -0.33 | -3.5 | | | NW | | | | -46 | 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 | 8 | 24 | 2 | 14 | 8 | 4 | 1 | 0 | 1 |
| DEP | 0 | -2 | +1 | 0 | -1 | -1 | 0 | 0 | 0 | -1 |

| | | | | | | | | | | | | | | |
|-------|---------------|----|---|----|----|----|---|---|---|---|----------------------|---------|---------------|--------------|
| | WEATHER TYPES | | | | | | | | | | SEASONAL DEGREE DAYS | | PRECIPITATION | |
| | R | L | S | Z | IP | A | T | F | D | H | BS | HEATING | COOLING | JAN-February |
| TOTAL | 7 | 1 | 9 | 1 | 0 | 0 | 1 | 5 | 0 | 2 | 0 | 4685 | 0 | 2.36 |
| DEP | +2 | -2 | 0 | -1 | 0 | +1 | ■ | ■ | ■ | | | +199 | 0 | -1.54 |

Averages based on 1971-2000 data.

Temp midnight-midnight, Precip and Snow at 7 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.