



Champaign-Urbana Weather Highlights – February 2011

Jim Angel, State Climatologist

Temperatures

The temperatures ranged from -12 °F on February 10 to 61 °F seven days later, a range of 73 °F in a week.

Precipitation

The precipitation total for February was 3.77 inches, 1.76 inches above normal. It was the 9th wettest February on record. February records for Champaign-Urbana go back to 1889.

Snowfall

The snowfall total for February was 12.4 inches, 6.9 inches above normal. Combined with the record-setting 20.4 inches in December and the 8.1 inches in January, the seasonal snowfall total was 40.1 inches. As a result, it was the third snowiest December-February on record. *We consider December-February as our core winter months.* If you include the entire snowfall season which has the potential of running from October to May (yes, it has snowed in May back in 1929), this year's snowfall season is already the 6th snowiest on record. The five snowiest winters all had significant snowfall into March and even April.

Additional Information

For detailed rainfall reports in Champaign County, check out the new volunteer rain gauge network in Illinois called the Community Collaborative Rain, Hail, and Snow Network (CoCoRaHS) at <http://www.cocorahs.org/>.

Detailed monthly reports from the ISWS automated site are at <http://www.isws.illinois.edu/warm/data/2011/February/Champaign.txt>.

For more information on the climate of Illinois, visit the state climatologist web site at <http://www.isws.illinois.edu/atmos/statecli/>.

Also, check out the new state climatologist blog at <http://climateillinois.wordpress.com/>

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Local Climatological Data
Champaign-Urbana, IL - 118740

Illinois State Water Survey
Water Survey Research Center

February 2011

| 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 | 21 | 16 | 19 | 0.51 | 0.9 | 1 | SW-,RW-,ZR,IP | M | M | | | 46 | 0 |
| 2 | 21 | 7 | 14 | 1.01 | 6.0 | 7 | ZR,IP,SW,BS | M | M | | | 51 | 0 |
| 3 | 15 | 0 | 8 | 0.00 | 0.0 | 6 | BS | M | M | | | 57 | 0 |
| 4 | 25 | 7 | 16 | 0.00 | 0.0 | 6 | | M | M | | | 49 | 0 |
| 5 | 28 | 20 | 24 | 0.03 | 1.2 | 7 | SW+,FZFG | M | M | | | 41 | 0 |
| 6 | 33 | 24 | 29 | 0.13 | 2.5 | 10 | SW+,SW-,FZFG | M | M | | | 36 | 0 |
| 7 | 30 | 17 | 24 | 0.00 | 0.0 | 9 | | M | M | | | 41 | 0 |
| 8 | 17 | 1 | 9 | T | T | 7 | SW- | M | M | | | 56 | 0 |
| 9 | 12 | 2 | 7 | 0.00 | 0.0 | 7 | | M | M | | | 58 | 0 |
| 10 | 18 | -12 | 3 | 0.00 | 0.0 | 7 | | M | M | | | 62 | 0 |
| 11 | 32 | 14 | 23 | 0.00 | 0.0 | 7 | | M | M | | | 42 | 0 |
| 12 | 37 | 24 | 31 | 0.00 | 0.0 | 7 | | M | M | | | 34 | 0 |
| 13 | 44 | 31 | 38 | 0.00 | 0.0 | 6 | | M | M | | | 27 | 0 |
| 14 | 44 | 27 | 36 | 0.00 | 0.0 | 5 | | M | M | | | 29 | 0 |
| 15 | 38 | 26 | 32 | 0.00 | 0.0 | 4 | | M | M | | | 33 | 0 |
| 16 | 54 | 33 | 44 | 0.00 | 0.0 | 3 | | M | M | | | 21 | 0 |
| 17 | 61 | 43 | 52 | 0.00 | 0.0 | 2 | | M | M | | | 13 | 0 |
| 18 | 55 | 35 | 45 | 0.00 | 0.0 | 0 | | M | M | | | 20 | 0 |
| 19 | 47 | 29 | 38 | 0.00 | 0.0 | 0 | | M | M | | | 27 | 0 |
| 20 | 59 | 32 | 46 | 0.28 | 0.0 | 0 | RW- | M | M | | | 19 | 0 |
| 21 | 55 | 32 | 44 | 0.27 | 0.0 | 0 | RW-,F(AM) | M | M | | | 21 | 0 |
| 22 | 32 | 27 | 30 | 0.28 | T | T | RW-,SW- | M | M | | | 35 | 0 |
| 23 | 39 | 27 | 33 | T | T | 0 | SW- | M | M | | | 32 | 0 |
| 24 | 38 | 30 | 34 | 0.15 | 0.0 | 0 | RW+,T,H,F(AM) | M | M | | | 31 | 0 |
| 25 | 33 | 29 | 31 | 0.10 | 1.8 | 2 | SW- | M | M | | | 34 | 0 |
| 26 | 36 | 29 | 33 | T | T | 1 | SW-,F(AM) | M | M | | | 32 | 0 |
| 27 | 55 | 34 | 45 | T | 0.0 | T | L,F(AM) | M | M | | | 20 | 0 |
| 28 | 39 | 26 | 33 | 1.01 | 0.0 | 0 | RW,T,F | M | M | | | 32 | 0 |
| AVG/TOT | 36.4 | 21.8 | 29.1 | 3.77 | 12.4 | | | | | | | 999 | 0 |
| DEP. | -1.2 | +0.1 | -0.6 | +1.76 | +6.9 | | | NW | | | | +12 | 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 | 11 | 24 | 2 | 14 | 10 | 9 | 3 | 2 | 4 |
| DEP | 0 | +1 | +1 | 0 | +1 | +4 | +2 | +2 | | +2 |

| | WEATHER TYPES | | | | | | | | | | | SEASONAL DEGREE DAYS | | PRECIPITATION |
|-------|---------------|----|---|---|----|---|----|---|---|---|----|----------------------|---------|---------------|
| | R | L | S | Z | IP | A | T | F | D | H | BS | HEATING | COOLING | JAN-February |
| TOTAL | 6 | 1 | 9 | 2 | 2 | 0 | 2 | 7 | 0 | 1 | 2 | 4641 | 0 | 4.43 |
| DEP | +1 | -2 | 0 | 0 | 0 | | +3 | | | | | +155 | 0 | +0.53 |

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.