

Local Climatological Data
Champaign-Urbana, IL - 118740

Illinois State Water Survey
Water Survey Research Center

January 2008

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	24	5	15	0.05	T	T	RW-,SW-,BS		M	M		50	0
2	14	1	8	T	0.3	T	SW-		M	M		57	0
3	26	1	14	T	T	T	SW-		M	M		51	0
4	40	22	31	0.00	0.0	T			M	M		34	0
5	45	35	40	0.12	0.0	0	RW-		M	M		25	0
6	61	43	52	T	0.0	0	RW-		M	M		13	0
7	67	56	62	0.00	0.0	0			M	M		3	0
8	58	36	47	1.40	0.0	0	TRW+		M	M		18	0
9	42	29	36	0.06	0.0	0	RW-		M	M		29	0
10	44	30	37	0.00	0.0	0			M	M		28	0
11	36	26	31	0.27	0.0	0	RW		M	M		34	0
12	46	26	36	T	T	0	SW-		M	M		29	0
13	33	25	29	0.00	0.0	0			M	M		36	0
14	25	14	20	T	T	0	SW-		M	M		45	0
15	27	11	19	T	T	0	SW-		M	M		46	0
16	38	18	28	0.00	0.0	0			M	M		37	0
17	33	17	25	0.01	0.2	T	SW-		M	M		40	0
18	34	11	23	0.02	T	0	SW-, IP-		M	M		42	0
19	12	1	7	T	T	T	SW-		M	M		58	0
20	17	-2	8	0.00	0.0	0			M	M		57	0
21	34	8	21	0.00	0.0	0			M	M		44	0
22	33	10	22	0.03	0.5	T	SW-		M	M		43	0
23	31	7	19	T	T	T	SW-		M	M		46	0
24	11	-3	4	0.01	0.2	T	SW-		M	M		61	0
25	24	-4	10	0.00	0.0	T			M	M		55	0
26	40	21	31	T	T	T	SW-		M	M		34	0
27	50	14	32	0.00	0.0	T			M	M		33	0
28	44	27	36	0.00	0.0	0			M	M		29	0
29	53	6	30	T	0.0	0	RW-, F(AM)		M	M		35	0
30	20	4	12	0.34	0.1	T	TRW,IP,ZR,L,SW-		M	M		53	0
31	24	17	21	0.00	0.0	T			M	M		44	0
AVG/TOT	35.0	16.5	25.8	2.31	1.3							1209	0
DEP.	+3.0	-0.2	+1.4	+0.42	-7.3				W			-50	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	12	27	3	20	10	4	1	1	0
DEP	0	-4	-2	-1	0	-1	0	+1		-3

	WEATHER TYPES										SEASONAL DEGREE DAYS		PRECIPITATION	
	R	L	S	Z	IP	A	T	F	D	H	BS	HEATING	COOLING	JAN-January
TOTAL	8	1	14	1	2	0	2	1	0	0	1	3198	0	2.31
DEP	+3	-2	+4	-1	0	+1	-3					-301	0	+0.42

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 – January 2008

ILLINOIS STATE WATER SURVEY

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Temperatures ranged from 67°F on January 7 (beating the old record on that date of 63, set in 1907) to -4 °F on January 25. The notable event in January was the passage of a very strong cold front on the 29th. Warm, moist air ahead of the cold front made it feel like spring with winds out of the south and a high of 53 °F. Soon after 3 pm, the front passed and temperatures dropped 20 degrees in an hour. By the next morning, the temperature was only 4 °F. Besides a drop in temperature, the winds shifted from the south to the west and increased speed, averaging 30 to 43 mph at Willard Airport with a gust of 60 mph.

Precipitation total for January was 2.31 inches, 0.42 inches above normal. January snowfall was only 1.3 inches, 7.3 inches below normal. This is the 12th lowest snowfall reported for January since snowfall records began in 1903. The records for January range from 0.0 in 1944 to 28.3 inches in 1979.

Additional Information

Additional information for January 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/2008/January/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/> .

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/>