



Champaign-Urbana Weather Highlights – December 2009

Jim Angel, State Climatologist

Temperatures for December were below normal. The average high temperature of 35.5°F was 1.3°F below normal. The average low temperature of 21.1°F was 1.1°F below normal. The average mean temperature of 28.3°F was 1.2°F below normal.

Precipitation for December was 3.77 inches, 1.01 inches above normal. The January-December precipitation total was 51.24 inches, 10.19 inches above normal, and the 5th wettest on record. It is close to last year when we had 52.58 inches. The wettest year on record was 1993 with 58.54 inches, followed by 1927 with 55.64 inches, and 1990 with 53.31 inches.

Snowfall for December was 6.9 inches, 0.8 inches above normal. That is far below the record of 19.1 inches that fell in December 1983.

Regarding snow, the *snowfall amount* is the total snowfall that fell within the 24 hours previous to our 8 am observation time. The *snow depth* is the total depth of snow found at 8 am and may represent both new snow and any remaining snow from previous events. While the 24-hour *snowfall amount* is reported to the nearest tenth of an inch, *snow depth* is reported to the nearest inch. As a cooperative observer for the National Weather Service, we follow their guideline on measuring and reporting snowfall. These guidelines are described at <http://www.nws.noaa.gov/om/coop/snowguid.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 at <http://www.sws.uiuc.edu/warm/data/2009/December/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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Local Climatological Data Champaign-Urbana, IL - 118740

Illinois State Water Survey
Water Survey Research Center

December 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	56	32	44	0.00	0.0	0			M	M		21	0
2	41	31	36	0.00	0.0	0			M	M		29	0
3	38	22	30	0.16	T	0	RW-,SW-		M	M		35	0
4	26	18	22	0.00	0.0	0			M	M		43	0
5	35	14	25	T	T	0	SW-		M	M		40	0
6	37	18	28	0.00	0.0	0			M	M		37	0
7	34	27	31	T	T	T	SW-,F(AM)		M	M		34	0
8	37	29	33	0.00	0.0	0			M	M		32	0
9	40	12	26	0.71	T	T	RW,RW-,SW-		M	M		39	0
10	19	6	13	T	T	T	SW-		M	M		52	0
11	36	12	24	0.00	0.0	0			M	M		41	0
12	41	16	29	0.00	0.0	0			M	M		36	0
13	40	33	37	0.59	0.0	0	RW+,RW,RW-		M	M		28	0
14	49	29	39	0.00	0.0	0			M	M		26	0
15	29	11	20	T	T	0	L,SW-		M	M		45	0
16	29	10	20	T	T	0	SW-		M	M		45	0
17	44	20	32	0.00	0.0	0			M	M		33	0
18	43	31	37	0.00	0.0	0			M	M		28	0
19	33	29	31	T	0.1	T	SW-,F(AM)		M	M		34	0
20	29	25	27	T	T	T	SW-		M	M		38	0
21	34	26	30	0.03	0.5	1	H,SW-,F(AM)		M	M		35	0
22	35	29	32	0.00	0.0	T	H		M	M		33	0
23	37	33	35	0.27	0.0	0	RW-,F		M	M		30	0
24	43	37	40	0.51	0.0	0	RW-,RW,F		M	M		25	0
25	46	22	34	1.18	0.0	0	RW,RW-		M	M		31	0
26	28	20	24	0.03	0.3	T	SW-,RW-		M	M		41	0
27	26	12	19	0.14	2.8	3	SW-		M	M		46	0
28	30	14	22	0.09	2.9	4	SW-		M	M		43	0
29	22	10	16	0.00	0.0	4			M	M		49	0
30	32	19	26	T	T	3	SW-		M	M		39	0
31	33	8	21	0.06	0.3	3	SW-,F(AM)		M	M		44	0
AVG/TOT	35.5	21.1	28.3	3.77	6.9							1132	0
DEP.	-1.3	-1.1	-1.2	+1.01	+0.8					W		+34	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	10	28	0	19	11	7	4	1				2	
DEP	0	0	+2	-2	0	+1	+2	0	0				0	

	WEATHER TYPES										SEASONAL DEGREE DAYS		PRECIPITATION	
	R	L	S	Z	IP	A	T	F	D	H	BS	HEATING	COOLING	JAN-December
TOTAL	7	1	14	0	0	0	0	6	0	2	0	2198	837	51.24
DEP	-1	-2	+5	-3	0	-1	0					-42	-149	+10.19

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.