



## **Champaign-Urbana Weather Highlights – December 2010**

Jim Angel, State Climatologist

### **Temperatures**

The average low temperature for December was 7.4 °F below normal (8<sup>th</sup> coldest on record) while the average high temperature was 6.1 °F below normal (14<sup>th</sup> coldest on record). The average mean temperature was 6.7 °F below normal (11<sup>th</sup> coldest on record).

### **Precipitation**

The precipitation total for December was 2.55 inches, 0.21 inches below normal. The annual precipitation for 2010 was 35.68 inches, 5.37 inches below normal.

### **Snowfall**

The snowfall for December was 20.4 inches, a new record for Champaign-Urbana. This beat the old record of 19.1 inches set in 1983.

### **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/2010/December/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

### December 2010

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	27	20	24		T	0.1	T	SW-		M	M	41	0
2	33	21	27		T		T	SW-		M	M	38	0
3	35	24	30		T		T	0 SW-		M	M	35	0
4	30	27	29	0.51		7.7	8	SW-,F(AM)		M	M	36	0
5	27	11	19	0.07		1.1	8	SW-,F		M	M	46	0
6	18	5	12		T		T	6 SW-		M	M	53	0
7	19	5	12		T		T	5 SW-		M	M	53	0
8	21	4	13	0.00		0.0	5			M	M	52	0
9	32	-1	16	0.00		0.0	4			M	M	49	0
10	39	25	32	0.01		0.2	4	SW-		M	M	33	0
11	39	20	30	0.00		0.0	3	F(AM)		M	M	35	0
12	25	13	19	1.05		0.7	2	RW,RW-,SW-,F		M	M	46	0
13	13	5	9	0.02		0.5	3	SW-,BS		M	M	56	0
14	19	1	10	0.00		0.0	3			M	M	55	0
15	24	3	14	0.00		0.0	3			M	M	51	0
16	24	21	23	0.44		3.9	6	SW-		M	M	42	0
17	22	13	18		T	0.1	6	SW-,F(AM)		M	M	47	0
18	27	9	18		T		T	6 SW-,F		M	M	47	0
19	29	2	16	0.00		0.0	6	F,FZFG		M	M	49	0
20	31	21	26		T		T	6 SW-,F		M	M	39	0
21	36	31	34	0.09		1.1	6	SW-, RW-		M	M	31	0
22	33	18	26	0.00		0.0	4			M	M	39	0
23	32	20	26	0.00		0.0	4			M	M	39	0
24	30	24	27	0.00		0.0	3			M	M	38	0
25	28	24	26	0.31		5.0	8	SW-		M	M	39	0
26	27	18	23		T		T	8 SW-		M	M	42	0
27	21	13	17	0.00		0.0	8			M	M	48	0
28	29	11	20	0.00		0.0	8	F,H		M	M	45	0
29	35	11	23	0.00		0.0	7	F		M	M	42	0
30	48	35	42	0.05		0.0	4	L,F,FZFG		M	M	23	0
31	58	45	52		T	0.0	0	RW-		M	M	13	0
<b>AVG/TOT</b>	<b>29.4</b>	<b>16.1</b>	<b>22.8</b>	<b>2.55</b>		<b>20.4</b>						<b>1302</b>	<b>0</b>
DEP.	-7.4	-6.1	-6.7	-0.21		+14.3				W		+204	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	22	29	1	19	9	4	2	1				5	
DEP	0	+12	+3	-1	-2	-2	0	0	0				+3	

	WEATHER TYPES											SEASONAL DEGREE DAYS		PRECIPITATION
	R	L	S	Z	IP	A	T	F	D	H	BS	HEATING	COOLING	JAN-December
TOTAL	3	1	15	0	0	0	0	11	0	1	1	2291	1326	35.68
DEP	-5	-2	+6	-3	0	-1	+5	■	■	■		+51	+340	-5.37

**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.