

Local Climatological Data  
Champaign-Urbana, IL - 118740

Illinois State Water Survey  
Water Survey Research Center

December 2002

DATE	TEMPERATURE			PRECIP (in)	SNOW (in)		WEATHER TYPES	WIND				SKY COVER	DEGREE DAYS	
	Max	Min	Mean		Amnt	Depth		Dir	Speed (mph)	Peak Gust	Gust Dir		Heat	Cool
1	38	10	24	0.00	0.0	0		SW	8.8	26.2	SW	CLR	41	0
2	48	24	36	0.00	0.0	0		SW	8.1	21.4	N	PC	29	0
3	30	15	23	0.00	0.0	0		NE	6.4	18.4	E	CLR	42	0
4	28	16	22	0.00	0.0	0		NE	5.7	17.3	N	PC	43	0
5	32	14	23	0.00	0.0	0		W	6.6	16.6	W	CLDY	42	0
6	38	9	24	0.00	0.0	0		SW	7.1	18.5	SW	CLR	41	0
7	48	23	36	0.00	0.0	0		SW	7.0	16.9	W	CLR	29	0
8	37	17	27	0.00	0.0	0		N	5.6	14.8	NW	CLR	38	0
9	38	15	27	0.00	0.0	0		W	1.7	9.0	SW	CLR	38	0
10	40	17	29	0.00	0.0	0		SE	1.0	5.3	S	CLR	36	0
11	47	22	35	0.00	0.0	0		W	2.2	10.5	W	PC	30	0
12	40	23	32	0.00	0.0	0	F	S	4.3	11.6	S	CLDY	33	0
13	39	33	36	0.00	0.0	0	F	NE	5.9	17.9	NE	CLDY	29	0
14	38	27	33	0.00	0.0	0	F	NW	5.6	14.7	NW	CLDY	32	0
15	50	29	40	0.00	0.0	0		SW	6.2	15.9	SW	CLR	25	0
16	39	28	34	0.00	0.0	0		E	4.4	14.7	E	PC	31	0
17	51	34	43	0.07	0.0	0	TRW,L-	E	4.6	18.1	SE	CLDY	22	0
18	56	51	54	0.83	0.0	0	TRW+,R,RW-	S	13.0	27.9	S	CLDY	11	0
19	54	37	46	0.12	0.0	0	R-,F	W	7.1	23.3	S	CLDY	19	0
20	40	31	36	T	T	0	SW-	W	11.8	28.0	W	PC	29	0
21	43	27	35	T	0.0	0	RW-	W	7.7	21.5	W	CLR	30	0
22	40	24	32	T	0.0	0	RW-	W	9.6	23.1	W	CLDY	33	0
23	32	23	28	0.00	0.0	0		W	7.8	20.6	W	PC	37	0
24	31	26	29	0.37	5.7	0	S+	NE	6.9	20.0	NE	CLDY	36	0
25	26	20	23	0.12	1.8	8	S,BS	NW	8.2	19.8	N	CLDY	42	0
26	25	11	18	0.00	0.0	6		SW	5.8	14.8	W	PC	47	0
27	30	16	23	0.00	0.0	5	F	S	5.7	13.0	S	CLDY	42	0
28	37	22	30	0.00	0.0	4		SW	6.0	17.7	SW	PC	35	0
29	42	23	33	0.00	0.0	3		SE	4.8	20.7	S	CLR	32	0
30	59	40	50	T	0.0	1	RW-,F	S	12.6	28.6	S	CLDY	15	0
31	40	32	36	0.03	0.0	0	RW-	N	6.7	18.8	NE	CLR	29	0
<b>AVG/TOT</b>	<b>39.9</b>	<b>23.8</b>	<b>31.9</b>	<b>1.54</b>	<b>7.5</b>			<b>W</b>	<b>6.6</b>				<b>1018</b>	<b>0</b>
<b>DEP.</b>	<b>+3.1</b>	<b>+1.6</b>	<b>+2.4</b>	<b>-1.22</b>	<b>+1.4</b>			<b>W</b>	<b>-0.7</b>				<b>-80</b>	<b>0</b>

NUMBER OF DAYS and DEPARTURE

	MAX TEMP				MIN TEMP				PRECIPITATION					SNOW	SKY COVER		
	>=90	<=32	<=32	<=0	>	>=.01	>=.10	>=.50	>=1.00	>=1.0	CLR	PC	CLDY				
TOTAL	0	8	26	0	10	6	4	1	0	2	11	8	12				
DEP	0	-2	0	-2		-5	-2	-1	-1	0	+4	+1	-5				

	WEATHER TYPES											SEASONAL DEGREE DAYS		PRECIPITATION
	R	L	S	Z	IP	A	T	F	D	H	BS	HEATING	COOLING	JAN-December
TOTAL	7	1	3	0	0	0	2	6	0	0	1	2216	1332	39.48
DFF	-1	-2	-6	-3		0	+1	0				-24	+346	-1.57

Averages based on 1971-2000 data. The daily sky condition is determined by the prevailing sky condition of three observations made between 7am and 7pm LST. Snow depth at 7am LST. All other data midnight-midnight. M = Missin

WEATHER TYPES:

R = Rain  
L = Drizzle  
S = Snow  
T = Thunder  
Z = Freezing rain/drizzle  
IP = Ice pellets (sleet)  
A = Hail  
F = Fog  
D = Dust  
H = Haze  
BS = Blowing snow  
RW = Rainshower  
SW = Snowshower

PRECIP INTENSITY

- Light  
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.

# Champaign-Urbana Weather Highlights – December 2002

## ILLINOIS STATE WATER SURVEY

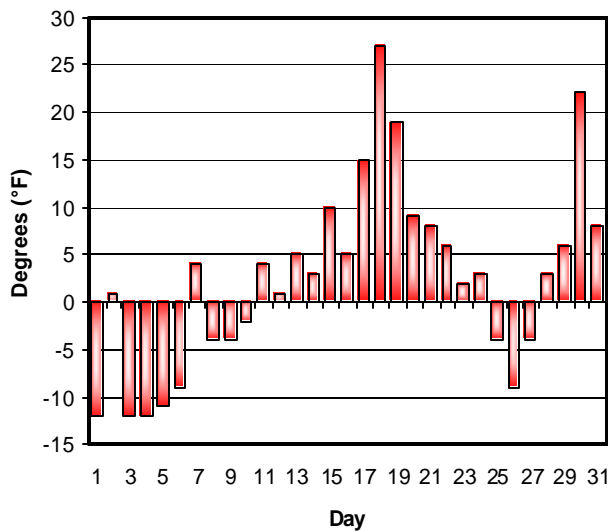
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December 2002 ended as the 33<sup>rd</sup> warmest December on record. The following records, which had stood for over one hundred years, were broken during the month:

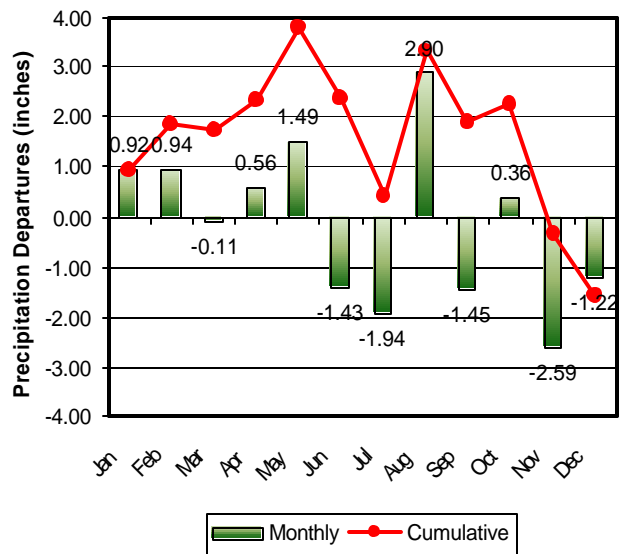
- ‡ **December 18<sup>th</sup>** – Record high minimum temperature of 51° Fahrenheit surpassed the old record of 44° Fahrenheit set in 1895
- ‡ **December 18<sup>th</sup>** – Record high mean temperature of 54° Fahrenheit surpassed the old record of 49° Fahrenheit set in 1895

While December 2002 started out on a very dry note, with no precipitation occurring during the first sixteen days, it ended as tied with 1946 as the 38<sup>th</sup> driest December on record. The heaviest rainfall occurred during thunderstorms on the 18<sup>th</sup>, which were then followed quickly a week later by the heaviest snowfall of the month on Christmas Eve and Christmas morning. The 7.5 inches of snow that fell during that storm was the only measurable snow for the month and let December 2002 rank as tied with 1904 as the 23<sup>rd</sup> snowiest December since 1903.

**December 2002 Mean Daily Temperature Departure from Normal**



**2002 Monthly Precipitation Departures from Normal**



MCP

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 8:00 a.m. For this and other climate data, visit the State Climatologist web site at <http://www.sws.uiuc.edu/atmos/statecli/>