

## Local Climatological Data Champaign-Urbana, IL - 118740

Illinois State Water Survey  
Water Survey Research Center

**July 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	Corn
1	93	71	82	0.00	0.0	0		W	3.9	15.3	W	CLR	0	17	29
2	95	70	83	0.00	0.0	0		W	1.6	8.1	W	CLR	0	18	28
3	95	71	83	0.00	0.0	0		SW	2.1	10.8	W	CLR	0	18	29
4	95	73	84	0.00	0.0	0		W	2.5	12.1	NE	CLR	0	19	30
5	93	72	83	0.00	0.0	0		NE	3.1	10.9	NE	CLR	0	18	29
6	88	67	78	0.00	0.0	0		NE	2.5	11.4	NE	CLR	0	13	27
7	90	69	80	0.00	0.0	0		NE	1.7	11.2	N	CLR	0	15	28
8	93	70	82	0.00	0.0	0		SW	3.6	12.2	W	CLR	0	17	28
9	95	74	85	T	0.0	0	RW-	SW	5.7	21.5	W	PC	0	20	30
10	83	71	77	0.00	0.0	0	H	NE	3.8	12.2	NE	CLDY	0	12	27
11	81	64	73	0.00	0.0	0		NE	3.7	13.9	NE	PC	0	8	23
12	82	62	72	0.00	0.0	0		NE	3.0	10.9	NE	PC	0	7	22
13	85	60	73	0.00	0.0	0		NE	4.6	14.7	N	CLR	0	8	23
14	88	64	76	0.00	0.0	0		NE	2.5	11.6	W	CLR	0	11	25
15	90	61	76	0.00	0.0	0		SW	1.8	12.5	W	PC	0	11	24
16	91	65	78	0.00	0.0	0		SW	1.8	11.1	W	PC	0	13	26
17	91	69	80	0.00	0.0	0		SW	3.0	11.1	SW	PC	0	15	28
18	90	70	80	0.15	0.0	0	TRW,A(1/4")	W	3.7	23.0	NW	PC	0	15	28
19	90	68	79	0.57	0.0	0	TRW+,TRW	W	3.0	20.1	W	CLDY	0	14	27
20	93	68	81	0.00	0.0	0		SE	2.1	7.7	SW	PC	0	16	27
21	98	73	86	0.02	0.0	0	TRW,RW-	SW	2.9	15.3	W	PC	0	21	30
22	96	71	84	0.86	0.0	0	TRW+	SW	4.3	18.7	SE	CLDY	0	19	29
23	83	66	75	0.00	0.0	0		NE	4.6	13.8	N	CLDY	0	10	25
24	82	64	73	0.00	0.0	0		NE	3.2	12.0	NE	CLDY	0	8	23
25	87	65	76	0.00	0.0	0		S	2.6	11.4	SW	PC	0	11	26
26	88	68	78	0.01	0.0	0	RW-,H	W	4.5	19.9	W	PC	0	13	27
27	92	70	81	0.22	0.0	0	TRW	S	6.1	22.1	SW	PC	0	16	28
28	91	71	81	0.88	0.0	0	TRW+,TRW	SW	5.8	19.7	W	CLDY	0	16	29
29	83	71	77	0.02	0.0	0	RW-	W	6.1	19.2	W	CLDY	0	12	27
30	90	68	79	0.00	0.0	0	F	W	1.9	7.8	W	PC	0	14	27
31	89	67	78	0.00	0.0	0		SE	2.3	9.4	S	CLR	0	13	27
<b>AVG/TOT</b>	<b>89.7</b>	<b>68.2</b>	<b>79.0</b>	<b>2.73</b>	<b>0.0</b>			<b>NE</b>	<b>3.4</b>				<b>0</b>	<b>438</b>	<b>836</b>
<b>DEP.</b>	<b>+4.5</b>	<b>+3.4</b>	<b>+4.0</b>	<b>-1.94</b>	<b>0.0</b>			<b>SW</b>	<b>-1.1</b>				<b>0</b>	<b>+128</b>	<b>+91</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	19	0	0	0	9	8	5	3	0	0	11	13	7
DEP	+10	0	0	0	0	-2	0	-1	0	0	+1	0	-1

	WEATHER TYPES										SEASONAL DEGREE DAYS			PRECIPITATION	
	R	L	S	Z	IP	A	T	F	D	H	BS	HEATING	COOLING	CORN	JAN-July
TOTAL	9	0	0	0	0	1	6	1	0	2	0	0	798	2218	24.87
DFF	-2	-1	0	0	-1	-3	■	■	■	0	+192	+104	+0.43		

**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      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.

# Champaign-Urbana Weather Highlights – July 2002

## ILLINOIS STATE WATER SURVEY

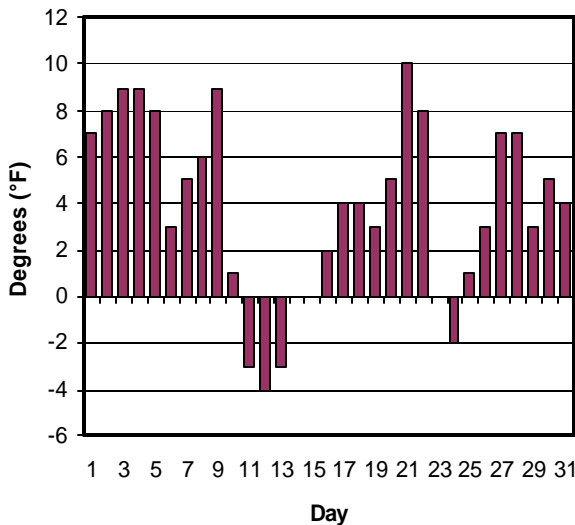
Maria Peters, Weather Observer  
 2204 Griffith Drive  
 Champaign, IL 61820  
 wxobsrvr@sws.uiuc.edu

This July in Champaign-Urbana was a hot and dry month. Only 2.73 inches of precipitation fell, ranking July 2002 as tied for the 42<sup>nd</sup> driest July since 1888. However, this monthly total is slightly misleading because it hides the fact that Champaign-Urbana went through the first half of the month with no measurable precipitation. In fact, prior to the storms on July 18<sup>th</sup>, the last day with measurable rainfall at the station was back on June 26<sup>th</sup>, when only 0.01 inch fell.

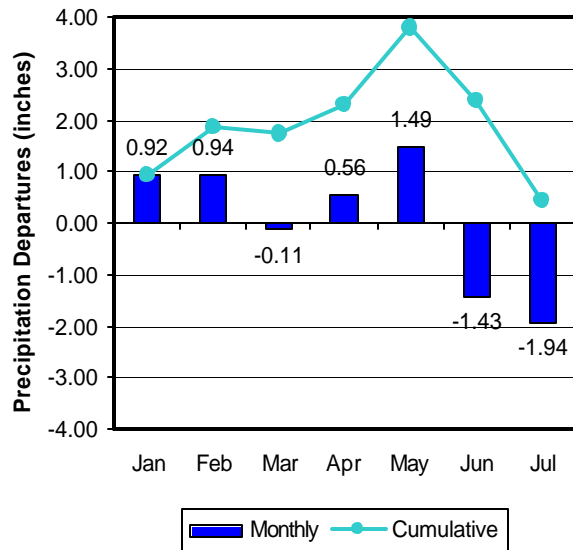
July 2002 did not set any temperature records, although the mean temperature of 79.0° Fahrenheit places this July as the 8<sup>th</sup> warmest on record. Champaign-Urbana had nineteen days where the maximum temperature reached 90° or above, which was more than double the average of nine. Since 1888, we have only gone above 90° that many times in a July in nine other years. Happily, we never did reach a temperature of 100° during July. In fact, the last time the Water Survey crossed the century mark was back on July 13, 1995 when it reached 100°.

To put July 2002 in perspective, the warmest July on record here occurred in 1936. That month, the maximum temperature reached 90° or greater 24 times, and of those 24 days, 13 of them had a temperature of 100° or higher. The average maximum temperature for the month was 95.9°, crushing July 2002 by 6.2°. The average mean temperature for the month was 83.0°, beating the second warmest July (1934) by 2.3°. July 1936, in addition to being incredibly hot, was also very dry. The monthly precipitation total was only 1.35 inches, which ranks it as the 11<sup>th</sup> driest July since 1888. This was following June 1936 when only 0.47 inches of precipitation fell. Fortunately for us now, July 2002 also marked the 100<sup>th</sup> anniversary of the air conditioner!

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



**2002 Monthly Precipitation Departures from Normal**



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/>