

Local Climatological Data Champaign-Urbana, IL - 118740

Illinois State Water Survey
Water Survey Research Center

August 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	92	69	81	0.00	0.0	0		S	3.5	12.8	S	PC	0	16	28
2	90	70	80	T	0.0	0	T,RW-	NE	4.2	13.9	N	CLDY	0	15	28
3	92	69	81	0.00	0.0	0		SE	2.5	8.2	E	CLR	0	16	28
4	94	72	83	0.00	0.0	0	H	SW	2.6	11.6	W	CLR	0	18	29
5	92	74	83	0.00	0.0	0	H	NE	3.0	14.8	NE	PC	0	18	30
6	80	62	71	0.00	0.0	0		NE	5.5	15.6	N	PC	0	6	21
7	78	57	68	0.00	0.0	0		NE	4.0	13.2	NE	CLR	0	3	18
8	80	57	69	0.00	0.0	0		NE	3.0	13.1	NE	CLR	0	4	19
9	85	60	73	0.00	0.0	0		SE	2.3	12.0	SE	CLR	0	8	23
10	91	62	77	0.00	0.0	0		SW	2.6	13.6	W	CLR	0	12	24
11	85	68	77	0.00	0.0	0	H	SW	3.6	16.9	SW	CLR	0	12	27
12	91	65	78	0.00	0.0	0		S	4.8	15.1	SW	PC	0	13	26
13	84	68	76	0.03	0.0	0	RW-	S	5.1	17.4	S	CLDY	0	11	26
14	74	65	70	0.25	0.0	0	RW	SW	2.3	10.6	SW	CLDY	0	5	20
15	86	64	75	0.59	0.0	0	RW	S	5.6	17.0	SW	CLDY	0	10	25
16	81	66	74	0.83	0.0	0	TRW+	SW	4.9	24.0	W	CLDY	0	9	24
17	86	68	77	0.00	0.0	0		SW	6.1	19.9	SW	PC	0	12	27
18	79	64	72	0.07	0.0	0	TRW	SE	2.5	12.9	S	PC	0	7	22
19	76	62	69	3.02	0.0	0	TRW+	NE	4.9	24.7	SE	CLDY	0	4	19
20	79	60	70	0.00	0.0	0		NE	2.5	10.0	E	CLDY	0	5	20
21	88	65	77	0.00	0.0	0		S	4.0	14.7	S	PC	0	12	26
22	90	71	81	1.62	0.0	0	TRW+	SW	5.7	19.3	W	PC	0	16	29
23	81	70	76	0.53	0.0	0	TRW,RW-	N	3.1	15.3	S	CLDY	0	11	26
24	84	70	77	0.33	0.0	0	TRW,RW-	W	2.8	11.1	N	CLDY	0	12	27
25	84	66	75	0.00	0.0	0		CALM	1.2	8.7	N	PC	0	10	25
26	85	66	76	0.00	0.0	0		NE	1.9	8.4	NE	PC	0	11	26
27	82	66	74	0.00	0.0	0		NE	3.5	13.0	NE	CLR	0	9	24
28	82	64	73	0.00	0.0	0		NE	4.3	13.3	NE	CLR	0	8	23
29	83	62	73	0.00	0.0	0		NE	3.1	10.3	N	CLR	0	8	23
30	83	63	73	0.00	0.0	0		NE	3.1	10.8	NE	PC	0	8	23
31	85	62	74	0.00	0.0	0		NE	1.6	9.5	NE	CLR	0	9	24
AVG/TOT	84.6	65.4	75.0	7.27	0.0			NE	3.5				0	318	760
DEP.	+1.4	+2.7	+2.0	+2.90	0.0			NE	-0.7				-1	+63	+69

NUMBER OF DAYS and DEPARTURE

	MAX TEMP				MIN TEMP				PRECIPITATION					SNOW		SKY COVER		
	>=90	<=32	<=32	<=0	>T	>=.01	>=.10	>=.50	>=1.00	>=1.0	CLR	PC	CLDY					
TOTAL	8	0	0	0	10	9	7	5	2	0	11	11	9					
DEP	+2	0	0	0		+1	0	+3	+1	0	+1	-1	0					
	WEATHER TYPES										SEASONAL DEGREE DAYS			PRECIPITATION				
	R	L	S	Z	IP	A	T	F	D	H	BS	HEATING	COOLING	CORN	JAN-August			
TOTAL	10	0	0	0	0	0	7	0	0	3	0	0	1116	2978	32.14			
DFF	-1	-1	0	0			+1	-6				-1	+255	+173	+3.33			

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 – August 2002

ILLINOIS STATE WATER SURVEY

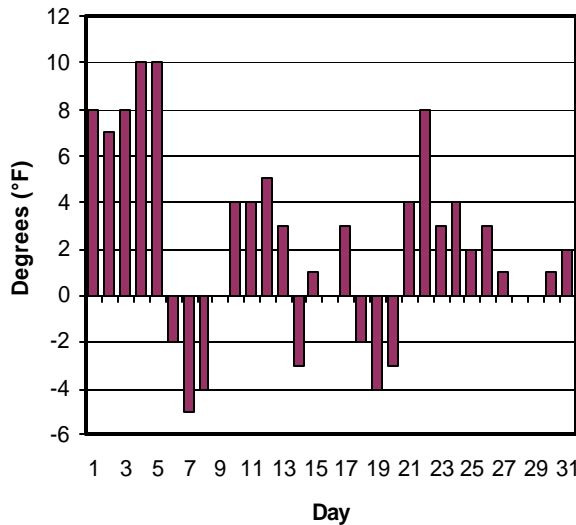
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August 2002 began and ended on a dry note. However, during the middle 2 weeks of the month, 7.27 inches of precipitation fell, making this August the 6th wettest since records began in 1888. The following new precipitation records were set:

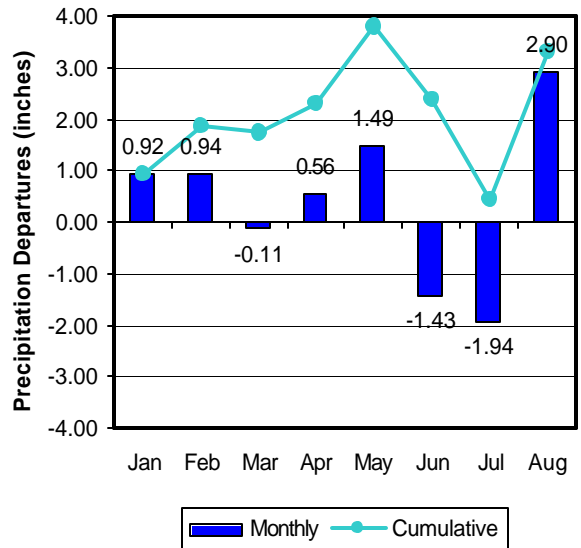
- ☛ August 19 – The 3.02 inches of precipitation on the 19th broke the old record of 2.28 inches set in 1970. The last time Champaign-Urbana reported more than three inches of precipitation during a midnight to midnight time period was on August 12, 1993, when the area received 5.32 inches.
 - ☛ August 22 – The 1.62 inches of precipitation on the 22nd broke the old record of 1.22 inches set in 1904
- Despite the heavy rainfall causing localized flooding, the storms were not that unusual for the area. The 3.00 inches that fell between 4:30 a.m. CDT and 10:15 a.m. CDT on the 19th yields a return period of only 8 years, and the greatest 15-minute total during that storm of 0.74 inches has a recurrence interval of less than 2 years.

No daily temperature records were set during August 2002 and the month finished as tied for the 18th warmest August since 1888.

August 2002 Mean Daily Temperature Departure from Normal



2002 Monthly Precipitation Departures from Normal



Summer Statistics:	Summer 2002	Departure from Average	Ranking
Maximum Temperature	86.3° F	+2.6°	15 th warmest (tied)
Minimum Temperature	65.6° F	+2.8°	4 th warmest (tied)
Mean Temperature	76.0° F	+2.7	7 th warmest (tied)
Precipitation	12.78 inches	-0.47 inches	41 st wettest

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/>