

Local Climatological Data  
Champaign-Urbana, IL - 118740

Illinois State Water Survey  
Water Survey Research Center

September 2004

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	Corn
1	84	59	72	0.00	0.0	0		SE	1.3	7.9	S	0	7	22
2	84	61	73	0.00	0.0	0		SE	1.7	12.4	SE	0	8	23
3	85	64	75	0.00	0.0	0		SW	1.5	8.4	W	0	10	25
4	88	63	76	0.00	0.0	0		CALM	1.0	7.4	W	0	11	25
5	88	64	76	0.00	0.0	0		SE	2.6	13.2	S	0	11	25
6	83	64	74	0.00	0.0	0		S	4.5	17.3	W	0	9	24
7	77	57	67	T	0.0	0	R-	N	4.9	15.1	N	0	2	17
8	75	56	66	0.00	0.0	0		N	6.1	18.4	N	0	1	16
9	79	54	67	0.00	0.0	0		N	3.1	14.5	SW	0	2	17
10	84	54	69	0.00	0.0	0		NE	1.1	8.2	NE	0	4	19
11	84	55	70	0.00	0.0	0		CALM	1.2	7.9	W	0	5	20
12	86	56	71	0.00	0.0	0		E	1.3	9.3	E	0	6	21
13	88	58	73	0.00	0.0	0		S	3.0	16.0	S	0	8	22
14	83	61	72	0.00	0.0	0		S	3.4	19.0	SW	0	7	22
15	85	62	74	2.18	0.0	0	TRW	S	6.1	19.3	S	0	9	24
16	80	60	70	0.01	0.0	0	R	N	3.7	12.1	W	0	5	20
17	76	54	65	0.00	0.0	0		NE	5.1	18.5	N	0	0	15
18	81	52	67	0.00	0.0	0		E	1.6	10.5	SE	0	2	17
19	80	55	68	0.00	0.0	0		SE	2.3	13.6	SE	0	3	18
20	82	51	67	0.00	0.0	0		SE	2.4	11.7	S	0	2	17
21	85	51	68	0.00	0.0	0		S	2.2	10.9	SW	0	3	18
22	86	51	69	0.00	0.0	0		SE	1.4	13.4	SE	0	4	19
23	86	56	71	0.00	0.0	0		S	3.1	15.1	S	0	6	21
24	84	59	72	0.00	0.0	0		NW	2.4	11.5	SW	0	7	22
25	79	57	68	0.00	0.0	0		NE	3.2	11.6	N	0	3	18
26	74	50	62	0.00	0.0	0		NE	2.5	10.9	NE	3	0	12
27	75	52	64	0.00	0.0	0		NE	3.0	11.6	E	1	0	14
28	71	51	61	0.00	0.0	0		N	5.0	18.2	N	4	0	11
29	71	47	59	0.00	0.0	0		NE	3.0	12.0	NE	6	0	11
30	76	43	60	0.00	0.0	0		SE	1.2	7.1	W	5	0	13
<b>AVG/TOT</b>	<b>81.3</b>	<b>55.9</b>	<b>68.6</b>	<b>2.19</b>	<b>0.0</b>			<b>NE</b>	<b>2.8</b>			<b>19</b>	<b>135</b>	<b>568</b>
<b>DEP.</b>	<b>+3.7</b>	<b>+1.3</b>	<b>+2.5</b>	<b>-1.03</b>	<b>0.0</b>			<b>SW</b>	<b>-1.8</b>			<b>-65</b>	<b>+19</b>	<b>+67</b>

NUMBER OF DAYS and DEPARTURE

	MAX TEMP		MIN TEMP		PRECIPITATION					SNOW
	>=90	<=32	<=32	<=0	>	>=.01	>=.10	>=.50	>=1.00	>=1.0
TOTAL	0	0	0	0	3	2	1	1	1	0
DEP	-2	0	0	0	-6	-4	-1	0	0	0

	WEATHER TYPES										SEASONAL DEGREE DAYS			PRECIPITATION	
	R	L	S	Z	IP	A	T	F	D	H	BS	HEATING	COOLING	CORN	JAN-September
TOTAL	3	0	0	0	0	0	1	0	0	0	0	48	820	3330	32.20
DEP	-7	-3	0	0			-3	-5				-37	-157	+24	+0.17

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.

# Champaign-Urbana Weather Highlights – September 2004

## ILLINOIS STATE WATER SURVEY

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**Temperature** – no temperature records were set this month even though the temperatures were warmer than normal for most of the month. However, we had 20 days at or above 80°F, which are 6 above normal and 5 more than August.

Through September 30, this year has had five days at or above 90°F – the third fewest number since full yearly records began in 1889. The year 1915 holds the record for fewest 90°F degree days, only one. The years 1889 and 1992 are in second place with 3 days. The years 1950, 1982, and 2004 are in third place, all with 5 days. The years with the most days at or above 90°F are 1936, 1954, and 1988; all with 56 days. All three of those years were drought years, by the way.

**Precipitation** - no records were set this month.

### Major change in September

Precipitation and snowfall are no longer midnight-midnight. They are now 7am-7am, meaning that the precipitation for a day represents the amount observed at 7am. Operationally, the precipitation and snowfall observations were always made at 7am and then adjusted to midnight-midnight using recording gages. This process was cumbersome and did not meet the needs of some of our users. Furthermore, the recording gages have not been reliable this summer. The new observation time will simplify the observer's workload and remove the previous discrepancy we had between snowfall and snowdepth since they now represent the same time period.

Additional information for September can be found at the Illinois Climate Network site that is collocated with our cooperative weather observer site. This automated station collects temperature, wind, soil temperature, evaporation, humidity, and solar radiation data. These data are usually posted a few days after the end of the month at:

<http://www.sws.uiuc.edu/warm/data/2004/September/Champaign.txt>

JRA

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/>