

# Local Climatological Data

## Champaign-Urbana, IL - 118740

Illinois State Water Survey  
Water Survey Research Center

**October 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
1	77	46	62	0.00	0.0	0		S	4.7	20.0	SW	3	0
2	61	38	50	0.04	0.0	0	R-, F		3.8	19.6		15	0
3	72	31	52	0.00	0.0	0			3.7	15.8		13	0
4	61	39	50	0.00	0.0	0		N	4.0	18.8	N	15	0
5	63	34	49	0.00	0.0	0		NE	1.2	9.2	NE	16	0
6	76	36	56	0.00	0.0	0		S	1.3	8.6	S	9	0
7	81	41	61	0.00	0.0	0		S	3.0	15.2	SS	4	0
8	68	62	65	0.00	0.0	0		S	6.1	16.8	S	0	0
9	73	51	62	0.23	0.0	0	R, F	NE	3.2	13.3	W	3	0
10	70	45	58	0.00	0.0	0		NE	3.6	13.4	NE	7	0
11	67	44	56	0.00	0.0	0		NE	3.6	13.2	NE	9	0
12	55	48	52	0.00	0.0	0		NE	3.6	11.5	N	13	0
13	55	44	50	0.17	0.0	0	R, F	NW	3.0	11.2	N	15	0
14	54	41	48	0.03	0.0	0	R-, F	NW	2.5	9.7	NW	17	0
15	56	45	51	0.13	0.0	0	R, F	W	6.9	24.1	W	14	0
16	52	33	43	T	0.0	0	L-, F	W	9.1	27.3	W	22	0
17	60	29	45	0.00	0.0	0		W	3.4	14.1	W	20	0
18	50	43	47	0.62	0.0	0	TRW, F	NE	4.2	18.0	NE	18	0
19	51	44	48	0.63	0.0	0	TRW, R-, F	NE	4.1	13.2	E	17	0
20	56	49	53	0.01	0.0	0	R-, F	NE	3.9	11.1	N	12	0
21	59	47	53	0.00	0.0	0		NE	2.3	9.6	NE	12	0
22	67	46	57	0.00	0.0	0		SE	4.3	12.4	SE	8	0
23	76	53	65	0.42	0.0	0	R	S	7.0	21.8	SW	0	0
24	68	42	55	0.16	0.0	0	R	W	2.4	12.4	NW	10	0
25	78	44	61	0.00	0.0	0		SE	2.1	10.6	S	4	0
26	65	50	58	0.00	0.0	0		SE	3.3	12.9	SE	7	0
27	59	50	55	0.71	0.0	0	R, F	NE	2.8	11.4	N	10	0
28	65	49	57	0.01	0.0	0	R, F	SE	4.0	13.7	S	8	0
29	80	64	72	0.25	0.0	0	R, TRW, F	S	9.5	24.1	SW	0	7
30	70	46	58	0.30	0.0	0	R, TRW, F	W	12.2	33.6	SW	7	0
31	66	42	54	0.00	0.0	0		W	3.4	11.6	W	11	0
<b>AVG/TOT</b>	<b>64.9</b>	<b>44.4</b>	<b>54.7</b>	<b>3.71</b>	<b>0.0</b>			<b>NE</b>	<b>4.3</b>			<b>319</b>	<b>7</b>
DEP.	-0.3	+1.1	+0.4	+0.90	-0.1			SW	-1.3			-27	-2

### NUMBER OF DAYS and DEPARTURE

	MAX TEMP				PRECIPITATION					SNOW
	>=90	<=32	<=32	<=0	>T	>=.01	>=.10	>=.50	>=1.00	>=1.0
TOTAL	0	0	2	0	15	14	10	3	0	0
DEP	0	0	-2	0	+5	+5	+1	-1		0

	WEATHER TYPES										SEASONAL DEGREE DAYS		PRECIPITATION	
	R	L	S	Z	IP	A	T	F	D	H	BS	HEATING	COOLING	JAN-October
TOTAL	14	7	0	0	0	0	4	13	0	0	0	367	827	35.91
DEP	+4	+3			0	+2	+9					-64	-159	+1.07

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 – October 2004

## ILLINOIS STATE WATER SURVEY

Jim Angel, State Climatologist  
2204 Griffith Drive  
Champaign, IL 61820  
wxobsrvr@sws.uiuc.edu

**Temperature** – the high of 80° on October 29 tied the record for that date. Other years with a high of 80° for that date were 1901, 1937, and 1971. The mean temperature of 72° on October 29 set a new record for that date.

**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

Additional information for October 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/October/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/>