

Local Climatological Data
Champaign-Urbana, IL - 118740

Illinois State Water Survey
Water Survey Research Center

October 2007

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	71	58	65	0.15	0.0	0	TRW		M	M		0	0
2	86	52	69	0.00	0.0	0	F(AM)		M	M		0	4
3	78	57	68	0.59	0.0	0	RW		M	M		0	3
4	88	56	72	0.00	0.0	0			M	M		0	7
5	90	66	78	0.00	0.0	0			M	M		0	13
6	90	66	78	0.00	0.0	0			M	M		0	13
7	92	66	79	0.00	0.0	0			M	M		0	14
8	90	63	77	0.00	0.0	0			M	M		0	12
9	79	53	66	0.19	0.0	0	TRW		M	M		0	1
10	56	44	50	0.00	0.0	0			M	M		15	0
11	62	41	52	0.00	0.0	0			M	M		13	0
12	60	42	51	0.00	0.0	0			M	M		14	0
13	63	39	51	0.00	0.0	0			M	M		14	0
14	77	53	65	0.00	0.0	0			M	M		0	0
15	78	51	65	0.00	0.0	0			M	M		0	0
16	70	55	63	0.11	0.0	0	RW-,F(AM)		M	M		2	0
17	75	48	62	0.00	0.0	0	F(AM)		M	M		3	0
18	81	57	69	1.11	0.0	0	RW+, TRW-		M	M		0	4
19	60	53	57	0.19	0.0	0	TRW+, RW-		M	M		8	0
20	76	44	60	0.00	0.0	0			M	M		5	0
21	79	55	67	0.00	0.0	0			M	M		0	2
22	63	48	56	0.00	0.0	0			M	M		9	0
23	56	45	51	0.50	0.0	0	RW		M	M		14	0
24	56	42	49	0.00	0.0	0			M	M		16	0
25	54	39	47	0.00	0.0	0			M	M		18	0
26	54	43	49	0.02	0.0	0	RW-		M	M		16	0
27	60	39	50	0.43	0.0	0	RW		M	M		15	0
28	58	35	47	0.00	0.0	0			M	M		18	0
29	60	32	46	0.00	0.0	0			M	M		19	0
30	66	34	50	0.00	0.0	0			M	M		15	0
31	66	39	53	0.00	0.0	0			M	M		12	0
AVG/TOT	70.8	48.9	59.9	3.29	0.0	0.0						226	73
DEP.	+5.6	+5.6	+5.6	+0.48	-0.1				SW			-120	+64

NUMBER OF DAYS and DEPARTURE

	MAX TEMP		MIN TEMP		PRECIPITATION					SNOW
	>=90	<=32	<=32	<=0	>T	>=.01	>=.10	>=.50	>=1.00	>=1.0
TOTAL	4	0	1	0	9	9	8	3	1	0
DEP	+4	0	-3	0	0	0	+3	+1	0	0

	WEATHER TYPES										SEASONAL DEGREE DAYS		PRECIPITATION	
	R	L	S	Z	IP	A	T	F	D	H	BS	HEATING	COOLING	JAN-October
TOTAL	9	0	0	0	0	0	4	3	0	0	0	249	1369	27.34
DEP	-1	-4			0	+2	-1					-182	+383	-7.50

Averages based on 1971-2000 data. Temp midnight-midnight, Precip and Snow at 8 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.

WIND: DIR is the 24 hr prevailing direction (greatest number of hours). Speed is the daily average of 24 hourly average wind speeds.

Champaign-Urbana Weather Highlights – October 2007

ILLINOIS STATE WATER SURVEY

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

Temperatures ranged from 32 °F on October 29 to 92 °F on October 7.

- The monthly average mean daily temperature was 59.9 °F, 5.6 °F above normal and the 10th warmest since records began in 1888.
- The monthly average high temperature was 70.8 °F, 5.6 °F above normal and the 15th warmest on record.
- The monthly average low temperature was 48.9 °F, 5.6 °F above normal and the 8th warmest on record.
- There were 4 days at or above 90 °F reported in October, 4 days above normal. This is tied with October 1897 as having the most such days ever recorded in October.
- The first 32 °F of the season was observed on October 29 and was accompanied by widespread frost. Historically, this is about two weeks later than usual and occurs about once in every 10 years.

Precipitation total for October was 3.29 inches, 0.48 inches above normal. This is the first month since June that we have been above normal on precipitation. The year to date precipitation is 27.34 inches, 7.50 inches below normal. However, recent rains, coupled with cooler temperatures and a winding down of the growing season, have helped soil moisture recover from this summer's dry weather.

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. Usually, these data are posted several days after the end of the month at: <http://www.sws.uiuc.edu/warm/data/2007/October/Champaign.txt>

For detailed rainfall reports, check out the new volunteer raingage network in Illinois called the Community Collaborative Rain, Hail and Snow Network (CoCoRaHS) at <http://www.cocorahs.com/>.

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 8:30 a.m. For this and other climate data, visit the State Climatologist web site at <http://www.sws.uiuc.edu/atmos/statecli/>