Local Climatological Data

Champaign-Urbana, IL - 118740

Illinois State Water Survey
Water Survey Research Center

May 2004

DATE	TEMPERATURE Max	Min	Mean	PRECIP (in)	SNOW (in) Amnt	Depth	WEATHER TYPES	WIND Dir	Speed (mph)	Peak Gust	Gust Dir	SKY COVER	DEGREE DAYS Heat	Cool	Corn
1	50	43	47	0.28	0.0	0	RW-	N	7.1	19.9	N	CLDY	18	0	0
2	56	41	49	0.04	0.0	0	RW-	NE	4.3	23.6	W	PC	16	0	3
3	56	38	47	0.00	0.0	0		NE	3.2	13.4	W	PC	18	0	3
4	61	40	51	0.03	0.0	0	RW-	SW	7.5	22.5	S	CLDY	14	0	6
5	75	47	61	0.00	0.0	0	F	S	3.4	12.3	S	CLR	4	0	13
6	87	54	71	0.00	0.0	0		SW	7.0	21.4	S	CLR	0	6	20
7	74	53	64	0.00	0.0	0		NE	5.7	22.6	N	PC	1	0	14
8	86	51	69	0.00	0.0	0		SW	5.5	21.0	S	CLR	0	4	19
9	86	59	73	0.00	0.0	0		SW	7.0	22.3	SW	CLR	0	8	23
10	84	65	75	0.20	0.0	0	TRW,RW+	SW	6.7	29.3	SW	PC	0	10	25
11	84	63	74	0.11	0.0	0	TRW	S	5.4	19.3	SW	PC	0	9	24
12	85	62	74	0.42	0.0	0	TRW+,RW-	S	7.3	27.9	SW	PC	0	9	24
13	77	64	71	0.73	0.0	0	TRW,RW-	S	4.7	19.1	S	CLDY	0	6	21
14	72	51	62	0.58	0.0	0		NW	4.2	19.1	NW		3	0	12
15	59	50	55	0.00	0.0	0		NE	3.1	10.6	NE		10	0	5
16	72	45	59	0.00	0.0	0	F	SE	2.9	10.6	SE		6	0	11
17	81	56	69	0.05	0.0	0		SW	6.5	21.1	SW		0	4	19
18	81	58	70	1.15	0.0	0	TRW	SW	4.4	20.1	S		0	5	20
19	79	53	66	0.00	0.0	0		S	3.6	12.5	S		0	1	16
20	81	68	75	0.00	0.0	0		SW	5.7	16.0	SW		0	10	25
21	87	70	79	0.00	0.0	0		SW	6.3	20.5	SW		0	14	28
22	85	69	77	0.00	0.0	0		SW	8.4	22.8	S		0	12	27
23	76	65	71	0.02	0.0	0	RW-	S	8.6	23.2	SW		0	6	21
24	81	55	68	0.00	0.0	0		W	3.9	14.3	W		0	3	18
25	72	60	66	0.63	0.0	0	TRW	W	4.8	33.8	SW		0	1	16
26	71	56	64	0.03	0.0	0	RW-	N	3.1	13.7	NW		1	0	14
27	84	59	72	T	0.0	0		SW	4.9	18.5	W		0	7	22
28	74	53	64	0.00	0.0	0		NE	3.9	18.1	NE		1	0	14
29	80	49	65	0.00	0.0	0		SE	4.8	14.8	SE		0	0	15
30	85	64	75	0.26	0.0	0	TRW	S	7.1	35.4	SW		0	10	25
31	75	57	66	0.03	0.0	0	TRW-	W	10.6	29.7	SW		0	1	16
AVG/TOT	**76.0**	**55.4**	**65.7**	**4.56**	**0.0**			**SW**	**5.5**				**92**	**126**	**519**
DEP.	+2.4	+3.6	+3.0	-0.24	0.0			S	-0.8				-51	+56	+91

NUMBER OF DAYS and DEPARTURE

	MAX TEMP >=90	<=32	MIN TEMP <=32	<=0	PRECIPITATION >T	>=.01	>=.10	>=.50	>=1.00	SNOW >=1.0	SKY COVER CLR	PC	CLDY
TOTAL	0	0	0	0	16	15	9	4	1	0	4	6	3
DEP	-1	0	0	0		+4	+1	+1	-1	0			

	WEATHER TYPES R	L	S	Z	IP	A	T	F	D	H	BS	SEASONAL DEGREE DAYS HEATING	COOLING	CORN	PRECIPITATION JAN-May
TOTAL	12	0	0	0	0	0	8	2	0	0	0	5352	143	900	16.92
DEP	-1	-3		0		-1	+2	-1				-454	+65	+165	+1.36

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 = Missing

WEATHER TYPES:

R = Rain
L = Drizzle
S = Snow
T = Thunder
Z = Freezing rain/drizzle
IP = Ice pellets (sleet)
A = Hail
F = Fog
D = Dust
H = Haze
BS = Blowing snow
RW = Rainshower
SW = Snowshower

PRECIP INTENSITY - Light
Moderate
\+ Heavy

Precip amount "T" =Trace

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 – May 2004

ILLINOIS STATE WATER SURVEY
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Change in the sky cover observations: the sky cover observations have been discontinued due to biases discovered in the long-term record. Over the years, the weather observers estimated cloud cover three times a day to compute a daily sky cover. Because the weather observer is not a full time position, there has always been some reliance on the hourly sky cover reports at Willard Airport. In the late 1990s, Willard switched over to an automated sensor that only detected clouds up to 12,000 feet. As a result, higher cloud layers were missed, leading to more "clear" and "partly cloudy" days and fewer "cloudy" days. Unlike temperature, precipitation, and snow, which are archived at the national level, sky cover was for local use only and of secondary importance. Because this problem cannot be easily fixed, the sky cover will be removed in future monthly reports. Please use the sky cover counts and departures from normal in previous monthly reports with caution.

As a substitute for sky cover, you can get daily and hourly solar radiation data for Champaign from the ISWS WARM network at http://www.sws.uiuc.edu/warm/ under the "Illinois Climate Network".

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/**