

# Local Climatological Data

## Champaign-Urbana, IL - 118740

Illinois State Water Survey  
Water Survey Research Center

**April 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	Corn
1	70	47	59	0.04	0.0	0	RW-	SW	11.7	37.0	SW	6	0	10
2	77	40	59	0.00	0.0	0		SW	4.0	14.6	SW	6	0	14
3	66	36	51	0.00	0.0	0		S	8.6	27.6	NW	14	0	8
4	36	27	32	0.44	0.0	0	TRW+, A	N	11.9	29.5	W	33	0	0
5	42	28	35	T	T	0	SW-	NW	7.4	23.5	W	30	0	0
6	34	27	31	T	T	0	SW-	NW	7.7	23.5	W	34	0	0
7	33	21	27	T	T	0	SW-	W	9.2	24.8	W	38	0	0
8	38	30	34	T	T	0	SW-	W	4.2	12.8	W	31	0	0
9	46	29	38	0.00	0.0	0		S	2.8	13.4	W	27	0	0
10	58	26	42	T	T	0	SW-	SE	5.5	21.9	SE	23	0	4
11	62	38	50	0.47	0.0	0	RW-	W	8.6	28.8	W	15	0	6
12	39	33	36	0.22	T	0	TRW-, SW-	W	12.1	27.9	W	29	0	0
13	51	29	40	T	T	0	SW-	W	3.0	11.2	N	25	0	1
14	45	35	40	0.05	0.0	0	RW-	NE	6.8	25.1	NE	25	0	0
15	58	33	46	0.28	T	0	RW-,SW-,L-	N	7.1	19.3	N	19	0	4
16	63	37	50	0.00	0.0	0		N	4.2	16.9	N	15	0	7
17	74	38	56	0.00	0.0	0		W	5.1	18.4	NE	9	0	12
18	60	41	51	0.00	0.0	0		N	8.4	20.0	NE	14	0	5
19	58	40	49	T	0.0	0	RW-	N	4.5	14.7	N	16	0	4
20	71	40	56	0.00	0.0	0		E	2.2	11.7	SE	9	0	11
21	76	45	61	0.00	0.0	0		S	4.0	14.5	S	4	0	13
22	81	46	64	0.00	0.0	0		S	8.9	28.7	S	1	0	16
23	77	56	67	T	0.0	0	RW-	W	11.2	29.3	W	0	2	17
24	78	52	65	0.00	0.0	0		SE	3.4	13.9	E	0	0	15
25	65	51	58	0.52	0.0	0	TRW-, RW-	NE	5.7	21.7	W	7	0	8
26	72	50	61	0.18	0.0	0	RW-	W	7.0	20.7	W	4	0	11
27	65	47	56	0.23	0.0	0	TRW-, L-	W	7.0	19.3	W	9	0	8
28	73	51	62	0.00	0.0	0		W	7.0	26.2	W	3	0	12
29	82	49	66	0.00	0.0	0		W	5.2	18.5	W	0	1	16
30	87	57	72	0.00	0.0	0		W	6.9	23.6	SW	0	7	22
<b>AVG/TOT</b>	<b>61.2</b>	<b>39.3</b>	<b>50.3</b>	<b>2.43</b>	<b>T</b>			<b>W</b>	<b>6.7</b>			<b>446</b>	<b>10</b>	<b>224</b>
DEP.	-1.0	-1.5	-1.2	-1.22	-0.5			S	-1.2			+34	+2	+18

### NUMBER OF DAYS and DEPARTURE

	MAX TEMP		MIN TEMP		PRECIPITATION					SNOW
	>=90	<=32	<=32	<=0	>T	>=.01	>=.10	>=.50	>=1.00	>=1.0
TOTAL	0	0	8	0	17	9	7	1	0	0
DEP	0	0	+3	0	-3	-1	-1	-1		0

	WEATHER TYPES										SEASONAL DEGREE DAYS			PRECIPITATION	
	R	L	S	Z	IP	A	T	F	D	H	BS	HEATING	COOLING	CORN	JAN-April
TOTAL	11	2	8	0	0	1	4	0	0	0	0	5416	24	439	9.76
DEP	-2	-2	+6			0	-1	-3				-247	+16	+132	-1.00

**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 – April 2007

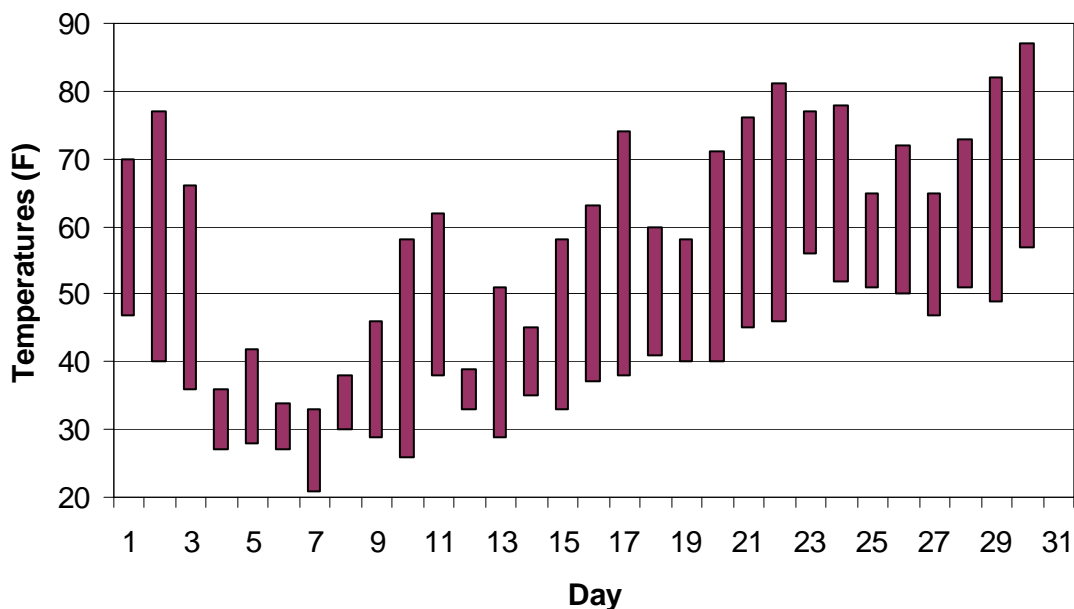
## ILLINOIS STATE WATER SURVEY

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**Temperature** – ranged from 21°F on April 7 to 87°F on April 30. The outstanding feature of April was the extended cold weather at the beginning of the month that caused damage to perennials and fruit crops across the state. The very warm March promoted early and rapid growth of plants, leaving them extremely vulnerable to the cold temperatures of April 4-10. See the link below this paragraph for more details on the warm March. During the cold period in April, temperatures were at or below 32°F for 110 hours. The occurrence of 21°F as late as April 7 is unusual but not rare. In the historical record 21°F has occurred on or after April 7 ten times with the most recent case in 2000. <http://www.sws.uiuc.edu/atmos/statecli/Champ-Urb/mar2007.pdf>

**Precipitation** – no daily records were set this month. The monthly precipitation total of 2.43” was 1.22” below normal.

### Champaign-Urbana, April 2007 Daily Temperature Range



### Additional Information

Additional information for April 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 several days after the end of the month at: <http://www.sws.uiuc.edu/warm/data/2007/April/Champaign.txt>

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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/>