

Local Climatological Data

Champaign-Urbana, IL - 118740

Illinois State Water Survey
Water Survey Research Center

December 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	40	29	35	0.66	0.4		T R, S, Z	W	7.3	20.1	NW	30	0
2	44	27	36	0.00	0.0	0		W	4.2	15.0	NW	29	0
3	43	26	35	0.00	0.0	0		S	4.3	12.4	W	30	0
4	52	32	42	0.00	0.0	0		SW	8.0	23.0	SW	23	0
5	52	29	41	0.00	0.0	0	R	SE	4.0	15.2	SE	24	0
6	55	44	50	0.24	0.0	0	R-, F	SE	5.4	12.4	S	15	0
7	54	40	47	0.93	0.0	0	R, F	W	10.8	29.7	W	18	0
8	44	33	39	0.13	0.0	0		SE	4.2	12.9	W	26	0
9	53	37	45	0.00	0.0	0		SE	4.2	12.9	W	20	0
10	44	39	42	T	0.0	0	R, F	NW	4.4	16.9	NW	23	0
11	41	34	38	0.02	0.0	0	R, S-	NW	4.4	16.9	NW	27	0
12	47	33	40	T	T	0	R-	W	12.4	30.7	NW	25	0
13	35	20	28	T	T	0	S-	NW	10.6	33.0	W	37	0
14	28	16	22	T	T	0	S-	NW	5.8	16.2	N	43	0
15	37	15	26	0.00	0.0	0		S	8.5	21.4	S	39	0
16	43	25	34	0.00	0.0	0		SW	8.7	21.9	W	31	0
17	37	24	31	0.00	0.0	0		SW	3.7	9.8	S	34	0
18	45	27	36	0.00	0.0	0		NW	8.4	24.2	W	29	0
19	27	8	18	0.00	0.0	0		N	9.8	27.4	N	47	0
20	30	12	21	T	T	0	S-	S	11.5	29.0	S	44	0
21	42	20	31	0.00	0.0	0		SW	7.8	20.6	SW	34	0
22	20	12	16	0.00	0.0	0		N	8.7	22.1	N	49	0
23	21	8	15	T	T	0	S-	NW	8.2	22.8	N	50	0
24	15	0	8	0.00	0.0	0		NW	5.8	14.6	S	57	0
25	24	6	15	T	T	0	S-	S	8.3	21.0	S	50	0
26	24	12	18	0.04	M	M	S	N	4.0	13.1	N	47	0
27	27	6	17	0.00	0.0	1		SE	4.7	17.3	S	48	0
28	44	23	34	0.00	0.0	T		S	7.9	17.7	SW	31	0
29	55	32	44	0.00	0.0	0		SW	3.5	11.6	SW	21	0
30	56	32	44	0.00	0.0	0	F	S	9.2	24.7	S	21	0
31	64	39	52	T	0.0	0		SW	8.9	24.2	S	13	0
AVG/TOT	40.1	23.9	32.0	2.02	0.4			S	7.0			1015	0
DEP.	+3.3	+1.7	+2.5	-0.74	-5.7			W	-0.3			-83	0

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	9	23	1	14	6	4	2	0				0	
DEP	0	-1	-3	-1	-5	-2	0	-1				-2		

	WEATHER TYPES										SEASONAL DEGREE DAYS		PRECIPITATION	
	R	L	S	Z	IP	A	T	F	D	H	BS	HEATING	COOLING	JAN-December
TOTAL	5	2	8	1	0	0	1	4	0	0	0	1967	827	43.09
DEP	-3	-1	-1	-2	0	0	-2	■	■	■		-273	-159	+2.04

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 – December 2004

ILLINOIS STATE WATER SURVEY

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Temperature – ranged from 0 degrees on December 24 to 64 degrees on December 31. The 64 degrees tied the record high for that date.

Precipitation – no daily records were set this month. The snowfall on Christmas Day was not officially measured but was estimated to be 1". This makes the unofficial total snowfall 1.4 inches, well below the normal December snowfall is 6.1 inches. However, this ranks as only the 30th driest December in terms of snowfall since records began in 1903 because light December snowfall is not that unusual.

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 December 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/December/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 8:00 a.m. For this and other climate data, visit the State Climatologist web site at <http://www.sws.uiuc.edu/atmos/statecli/>