

CHAMPAIGN-URBANA 2004 ANNUAL WEATHER SUMMARY

ILLINOIS STATE WATER SURVEY

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Official Champaign-Urbana temperature and precipitation records began in August 1888, while snowfall records began in 1903. The site was first located at the Morrow Plots on the campus of the University of Illinois from 1888 until 1984, before moving to its present location at the Water Survey Research Center near the corner of First Street and Windsor Road. It was originally operated by the University of Illinois before its operation was taken over by the Illinois State Water Survey in 1948. This station is part of the Cooperative Observer Network, operated by the National Weather Service (NWS). As such, we follow NWS observing practices and use NWS equipment. The records ultimately reside in the national archive at the National Climatic Data Center in Asheville, NC.

Monthly highlights can be found in the monthly weather summaries. For an archive of past reports, please see <http://www.sws.uiuc.edu/atmos/statecli/Champ-Urb/CU.htm>

Annual: Annual precipitation for 2004 was 43.09" (2.04" above normal), making it the 22nd wettest year on record. The mean annual temperature for 2004 was 52.4°F (0.7°F above normal), making it the 22nd warmest year on record (tied with 1942 and 1986). The snowfall for the snowfall season of October 2003 to April 2004 was 16.2", well below the 1971-2000 normal of 26.2". It ranks as the 10th lowest snowfall on record.

2004 ANNUAL CLIMATE SUMMARY FOR CHAMPAIGN-URBANA

Month	Temperature (°F)					Precipitation		Degree Days			Wind (mph)		
	Avg Max	Avg Min	Avg Mean	High	Low	Total (in)	Snow (in)	Heat	Cool	Corn	Dir	Speed	Peak Gust
Jan	32.0	16.0	24.0	63	-12	2.18	5.2	1264	0		W	7.1	30.9
Feb	38.5	21.5	30.0	61	7	0.56	2.7	1008	0		W	6.4	32.5
Mar	53.5	34.6	44.1	75	17	7.74	2.4	641	0		S	7.5	38.9
Apr	65.4	42.3	53.9	85	30	1.88	0.0	345	17	254	N	7.4	37.9
May	76.0	55.4	65.7	87	38	4.56	0.0	92	126	519	SW	5.5	35.4
Jun	79.8	59.3	69.6	91	49	3.77	0.0	19	164	588	SW	3.9	27.1
Jul	81.9	63.3	72.6	90	53	5.73	0.0	0	243	702	W	3.3	31.5
Aug	78.7	57.7	68.2	88	48	3.59	0.0	29	135	572	S	3.1	31.4
Sep	81.3	55.9	68.6	88	43	2.19	0.0	19	135	568	NE	2.8	19.3
Oct	64.9	44.4	54.7	81	29	3.71	0.0	319	7		NE	4.3	33.6
Nov	52.8	37.6	45.2	70	22	5.16	1.3	585	0		NE	5.7	37.6
Dec	40.1	23.9	32.0	64	0	2.02	0.4	1015	0		S	7.0	33.0
2004	62.1	42.7	52.4	91	-12	43.09	12.0	5336	827	3203	S	5.3	38.9
Depart	0.8	0.7	0.7			2.04	-14.2	-489	-159	-2		-1.1	

Degree days: heating and cooling base 65°F. Corn Growing Degree Days base 50°F with a max temp cutoff at 86°F.
 Depart = Departures from the 1971-2000 30-year average.

NUMBER OF DAYS WITH:

Mon	Temperature				Precipitation				Snow	Weather Phenomena								Sky Cover**		
	>= 90°	<= 32°	<= 32°	<= 0°	>= 0.01	>= 0.10	>= 0.50	>= 1.00	>= 1.0	R	L	S	Z	IP	A	T	F	CLR	PC	CLD
Jan	0	16	29	3	8	4	2	0	3	6	0	9	5	1	0	0	1	6	12	13
Feb	0	11	26	0	8	2	0	0	0	5	1	8	2	2	0	0	2	10	9	10
Mar	0	0	15	0	19	9	5	2	1	17	2	5	0	0	0	1	5	7	12	12
Apr	0	0	4	0	6	4	1	0	0	9	0	0	0	0	0	1	0	13	12	5
May	0	0	0	0	15	9	4	1	0	12	0	0	0	0	0	8	2			
Jun	2	0	0	0	12	6	1	1	0	12	0	0	0	0	0	5	2			
Jul	3	0	0	0	12	8	5	3	0	16	0	0	0	0	2	8	2			
Aug	0	0	0	0	10	9	2	1	0	11	2	0	0	0	0	3	2			
Sep	0	0	0	0	2	1	1	1	0	3	0	0	0	0	0	1	0			
Oct	0	0	2	0	14	10	3	0	0	14	7	0	0	0	0	4	13			
Nov	0	0	9	0	17	11	3	1	1	19	0	1	0	0	0	2	3			
Dec	0	9	23	1	6	4	2	0	0	5	2	8	1	0	0	1	4			
2004	5	36	108	4	129	77	29	10	5	129	14	31	8	3	2	34	36	36	45	40
Dep	-15	-6	-11	-4	11	4	3	-1	-4	13	-21	-9	-1		-2	-8	-13			

**discontinued in May 2004

2004 GROWING SEASON SUMMARY

Last 32°F temperature in spring:	April 14 (32°F)
First 32°F temperature in fall:	October 3 (31°F)
Length of growing season:	172 days (-6)
Growing season precipitation (4/1-9/30):	21.54 inches (-3.38 inches)
Total growing season Corn GDD (4/1-9/30):	3,203 (-2)

CHAMPAIGN – URBANA EXTREMES

Temperature and precipitation periods of record 1888 to 2004 (t – indicates a tie with the most recent record given).

Month	Temperature (°F)								Winds			
	2004		Period of Record		2004		Period of Record		2004		1989-2004	
	High Max	Date	High Max	Date	Low Min	Date	Low Min	Date	Peak Gust	Date	Peak Gust	Date
Jan	63	2	70	23/1909	-12	31	-25	05/1999-t	30.9	14	44.3	11/1990
Feb	61	29	72	25/2000	7	4	-25	13/1905-t	32.5	20	55.2	11/1999
Mar	75	28	85	24/1910-t	17	12	-5	17/1906	38.9	5	58.9	15/1990
Apr	85	17,18	95	17/1894	30	5	15	02/1899	37.9	28	49.7	18/1995
May	87	6,21	97	31/1934	38	3	26	01/1903	35.4	30	45.1	9/1990
Jun	91	8	103	25/1988-t	49	4,20,25	34	06/1894	27.1	1	47.9	8/1993
Jul	90	9,13,21	109	14/1954	53	27	41	02/1904	31.5	13	38.5	28/1999
Aug	88	3	102	17/1988	48	12,14	37	30/1893-t	31.4	9	39.4	9/1995
Sep	88	4,5,13	102	05/1899	43	30	24	30/1899	19.3	15	45.8	8/1989
Oct	81	7	93	03/1954	29	17	12	30/1895	33.6	30	44.8	30/1996
Nov	70	17	80	01/1950	22	25	-5	25/1950	37.6	24	51.4	21/1994
Annual	91	06/08	109	07/14/1954	-12	01/31	-25	01/19/1994	38.9	03/05	58.9	03/15/1990

Month	Daily Precipitation Extremes								Monthly Precipitation Extremes					
	2004		Period of Record		2004		1903-2004		Period of Record					
	Max 24-hour Precip	Date	Max 24-hour Precip	Date	Max 24-hour Snow	Date	Max 24-hour Snow	Date	High Precip	Year	Low Precip	Year	High Snowfall	Year
Jan	0.82	4	2.43	26/1967	2.6	27	11.4	31/1982	7.62	1950	0.06	1986-t	28.3	1979
Feb	0.17	2	2.30	22/1990	0.8	7	11.0	21/1912	6.05	1990	0.15	1947	18.5	1914-t
Mar	2.92	26	2.93	13/1917	1.2	16	14.0	20/1906	8.35	1922	0.38	1910	32.0	1906
Apr	0.94	20	3.09	20/1964	0.0	-	6.0	5/1920	9.55	1964	0.50	1899	8.0	1920
May	1.15	18	4.50	26/1921	0.0	-	2.5	2/1929	11.20	1943	0.22	1925	2.5	1929
Jun	2.21	10	3.89	19/1983					11.58	1902	0.32	1988		
Jul	1.32	10	4.43	30/1987					13.82	1992	0.47	1930-t		
Aug	1.07	25	5.32	12/1993					10.02	1993	0.06	1893		
Sep	2.18	15	3.91	15/1931					9.76	1926	0.06	1891		
Oct	0.71	27	3.72	21/1983	0.0	-	2.8	19/1989	9.01	1941	0.16	1964	3.3	1989
Nov	1.26	25	4.07	02/1936	1.3	25	9.1	27/1980	10.08	1985	0.00	1904	11.2	1932
Dec	0.40	1	2.97	13/1901	0.4	1	9.5	19/1973	6.63	1967	0.05	1890	19.1	1983
Annual	2.92	03/26	5.32	08/12/1993	2.6	01/27	14.0	03/20/1906	58.54	1993	18.28	1894	51.9	1977

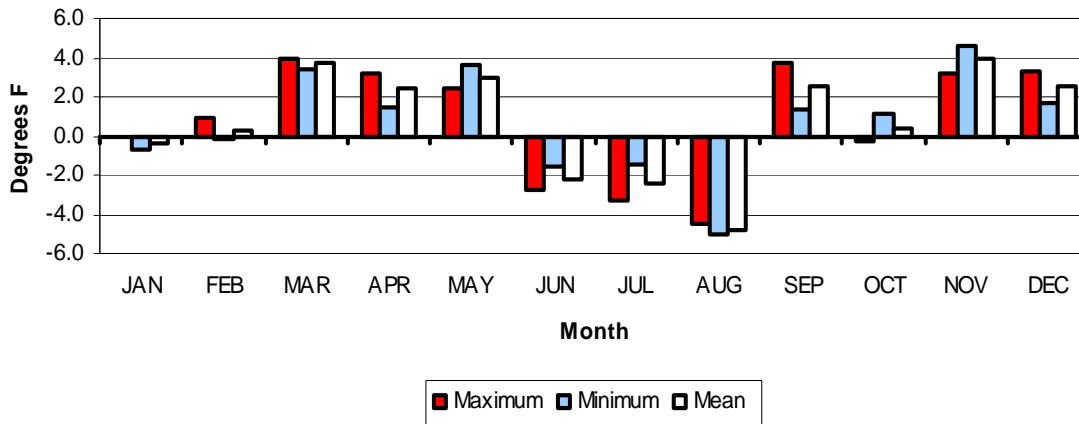
SEASONAL STATISTICS

Season	Mean Temp (°F)	Depart* from Average	Precip (in)	Depart* from Average	Snowfall (in)	Depart* from Average
Winter**	29.0	1.1	5.85	-0.81	13.5	-6.7
Spring	54.6	3.1	14.18	2.52	2.4	-1.4
Summer	70.1	-3.2	13.09	-0.16		
Fall	56.2	2.3	11.06	1.58	1.3	-0.9

*All climatological averages based on 1971-2000 data

**December 2003 – February 2004

**2004 Monthly Temperatures
Departures from Average**



**2004 Monthly Precipitation & Snowfall
Departure from Average**

