

CHAMPAIGN-URBANA 2007 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 being 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. Pictures of the site and weather instrumentation can be found at:

http://www.sws.uiuc.edu/atmos/statecli/Instruments/weather_instruments.htm

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 2007 was 33.94" (7.11" below normal). The mean annual temperature for 2007 was 53.6°F (1.9°F above normal), making it the 11th warmest year on record (tied with 1934 and 1952). The snowfall for the snowfall season of October 2005 to April 2007 was 24.0", slightly below the 1971-2000 normal of 26.2".

2007 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	36.1	23.3	29.7	53	4	3.03	3.3	1087	0		W	6.1	37.3
Feb	26.7	11.8	19.3	44	-8	2.07	20.0	1276	0		W	6.0	30.5
Mar	58.5	37.5	48.0	80	14	2.23	0.2	536	0		SW	6.6	35.3
Apr	61.2	39.3	50.3	87	21	2.43	0.0	446	10	224	W	6.7	37.0
May	80.7	55.4	68.1	90	38	1.63	0.0	38	140	573	S	3.8	38.3
Jun	84.4	62.5	73.5	94	49	5.68	0.0	1	264	686	SW	2.6	27.6
Jul	83.1	62.6	72.9	89	56	3.44	0.0	0	250	709	NE	2.9	19.8
Aug	88.8	67.5	78.2	97	58	1.48	0.0	0	415	823	SW	2.8	23.5
Sep	84.0	57.5	70.8	96	41	2.06	0.0	23	203	608	SW	2.9	23.9
Oct	70.8	48.9	59.9	92	32	3.29	0.0	226	73		SW	3.9	26.4
Nov	51.8	32.7	42.3	69	22	3.65	0.0	676	0		W	5.2	30.2
Dec	36.7	24.1	30.4	61	9	2.95	7.8	1064	0		W	5.8	36.0
2007	63.6	43.6	53.6	97	-8	33.94	31.3	5373	1355	3623	W	4.6	38.3
Depart	2.3	1.6	1.9			-7.11	5.1	-452	369	418		-1.8	

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							
	>= 90°	<= 32°	<= 32°	<= 0°	>= 0.01	>= 0.10	>= 0.50	>= 1.00	>= 1.0	R	L	S	Z	IP	A	T	F
Jan	0	12	25	0	9	5	3	1	2	11	4	14	1	0	0	1	5
Feb	0	19	28	7	6	5	2	0	4	2	0	13	1	1	0	0	1
Mar	0	2	12	0	13	9	0	0	0	14	0	4	0	1	0	6	1
Apr	0	0	8	0	9	7	1	0	0	11	2	8	0	0	1	4	0
May	1	0	0	0	8	3	1	0	0	11	0	0	0	0	0	5	1
Jun	7	0	0	0	11	9	5	1	0	13	0	0	0	0	0	7	3
Jul	0	0	0	0	10	4	3	2	0	10	1	0	0	0	1	6	3
Aug	16	0	0	0	8	7	0	0	0	9	2	0	0	0	0	6	1
Sep	9	0	0	0	7	5	1	1	0	7	3	0	0	0	0	3	4
Oct	4	0	1	0	9	8	3	1	0	9	0	0	0	0	0	4	3
Nov	0	0	16	0	8	5	2	1	0	8	1	1	0	1	0	2	1
Dec	0	14	29	0	18	9	0	0	2	13	3	10	5	1	0	2	8
2007	37	47	119	7	116	76	21	7	8	118	16	50	7	4	2	46	31
Dep	17	5	0	-1	-2	3	-5	-4	-1	2	-19	10	-2		-2	4	-18

2007 GROWING SEASON SUMMARY

Season	Mean Temp (°F)	Depart* from Average	Precip (in)	Depart* from Average	Snowfall (in)	Depart* from Average
Winter**	28.2	0.3	9.78	3.12	23.8	3.6
Spring	55.5	4.0	6.29	-5.37	0.2	-3.6
Summer	74.9	1.6	10.60	-2.65		
Fall	57.7	3.8	9.00	-0.48	0	-2.2

CHAMPAIGN – URBANA EXTREMES

Month	Temperature (°F)								Winds			
	2007		Period of Record		2007		Period of Record		2007		1989-2007	
	High Max	Date	High Max	Date	Low Min	Date	Low Min	Date	Peak Gust	Date	Peak Gust	Date
Jan	53	12	70	23/1909	4	31	-25	05/1999-t	37.3	18	44.3	11/1990
Feb	44	21	72	25/2000	-8	16	-25	13/1905-t	30.5	13	55.2	11/1999
Mar	80	25,27	85	24/1910-t	14	4	-5	17/1906	35.3	2	58.9	15/1990
Apr	87	30	95	17/1894	21	7	15	02/1899	37.0	1	49.7	18/1995
May	90	23	97	31/1934	38	18	26	01/1903	38.3	15	45.1	9/1990
Jun	94	16,17	103	25/1988-t	49	6	34	06/1894	27.6	7	47.9	8/1993
Jul	89	8,9	109	14/1954	56	2,3	41	02/1904	19.8	14	38.5	28/1999
Aug	97	12	102	17/1988	58	31	37	30/1893-t	23.5	20	39.4	9/1995
Sep	96	4	102	05/1899	41	15	24	30/1899	23.9	11	45.8	8/1989
Oct	92	7	93	03/1954	32	29	12	30/1895	26.4	18	44.8	30/1996
Nov	69	20	80	01/1950	22	29	-5	25/1950	30.2	28	51.4	21/1994
Dec	61	2	71	04/1998	9	6	-20	24/1983-t	36.0	23	48.4	15/1992
Annual	97	08/12	109	07/14/1954	-8	02/16	-25	01/19/1994	38.3	05/15	58.9	03/15/1990

Month	Daily Precipitation Extremes								Monthly Precipitation Extremes					
	2007		Period of Record		2007		1903-2007		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	1.06	15	2.43	26/1967	2.2	21	11.4	31/1982	7.62	1950	0.06	1986-t	28.3	1979
Feb	0.74	25	2.30	22/1990	6.5	14	11.0	21/1912	6.05	1990	0.15	1947	20.0	2007
Mar	0.48	23	2.93	13/1917	0.2	3	14.0	20/1906	8.35	1922	0.38	1910	32.0	1906
Apr	0.52	25	3.09	20/1964	0.0	-	6.0	5/1920	9.55	1964	0.50	1899	8.0	1920
May	0.93	28	4.50	26/1921	0.0	-	2.5	2/1929	11.20	1943	0.22	1925	2.5	1929
Jun	1.34	27	3.89	19/1983					11.58	1902	0.32	1988		
Jul	1.26	18	4.43	30/1987					13.82	1992	0.47	1930-t		
Aug	0.42	21	5.32	12/1993					10.02	1993	0.06	1893		
Sep	1.04	9	3.91	15/1931					9.76	1926	0.06	1891		
Oct	1.11	18	3.72	21/1983	0.0	-	2.8	19/1989	9.01	1941	0.16	1964	3.3	1989
Nov	1.96	22	4.07	02/1936	0.0	0	9.1	27/1980	10.08	1985	0.00	1904	11.2	1932
Dec	0.49	3	2.97	13/1901	4.9	16	9.5	19/1973	6.63	1967	0.05	1890	19.1	1983
Annual	1.96	11/22	5.32	08/12/1993	6.5	02/14	14.0	03/20/1906	58.54	1993	18.28	1894	51.9	1977

SEASONAL STATISTICS

Last 32°F temperature in spring:	April 13 (29°F)
First 32°F temperature in fall:	October 29 (32°F)
Length of growing season:	199 days (+21)
Growing season precipitation (4/1-9/30):	16.72 inches (-8.20 inches)
Total growing season Corn GDD (4/1-9/30):	3,623 (+418)

*All climatological averages based on 1971-2000 data

**December 2005 – February 2007



