



CHAMPAIGN-URBANA 2008 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.isws.illinois.edu/atmos/statecli/cuweather/index.htm>

Annual: Annual precipitation for 2008 was 52.57" (11.57" above normal) and the fourth wettest year on record since 1889. The mean annual temperature for 2008 was 50.6°F (1.2°F below normal) and the twelfth coolest year on record. The snowfall for the snowfall season of October 2007 to April 2008 was 25.1", slightly below the 1971-2000 normal of 26.2".



2008 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	35.0	16.5	25.8	67	-4	2.31	1.3	1209	0		232	7.9	46.4
Feb	33.3	17.8	25.6	55	3	5.96	15.2	1137	0		276	6.9	33.7
Mar	47.3	30.0	38.7	67	13	2.84	2.0	808	0		328	6.6	31.6
Apr	61.9	40.5	51.2	81	28	3.01	0.0	413	7	203	218	6.7	37.6
May	68.8	48.0	58.4	86	37	6.07	0.0	215	22	326	264	5.1	31.2
Jun	83.4	63.0	73.2	89	55	6.40	0.0	0	251	698	241	4.4	46.2
Jul	83.9	63.7	73.8	89	56	7.89	0.0	0	279	736	242	3.1	32.9
Aug	82.4	61.7	72.1	90	55	0.78	0.0	0	227	687	5	2.6	26.8
Sep	77.5	57.3	67.4	92	47	8.15	0.0	29	109	529	8	2.3	24.2
Oct	66.5	43.0	54.8	85	29	2.96	0.0	327	18		261	3.2	31.0
Nov	48.0	31.0	39.5	73	14	1.31	2.4	760	0		252	5.0	23.8
Dec	34.4	17.7	26.1	62	-2	4.89	4.2	1201	0		233	7.7	35.6
2008	60.2	40.9	50.6	92	-4	52.57	25.1	6099	913	3179	213	5.1	46.4
Depart	-1.1	-1.2	-1.2			11.52	-1.1	274	-73	-26		-1.3	

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	27	3	10	4	1	1	0	8	1	14	1	2	0	2	1
Feb	0	14	28	0	17	7	5	1	4	9	3	16	2	1	0	4	7
Mar	0	3	18	0	11	6	3	0	1	10	1	9	2	3	0	1	1
Apr	0	0	5	0	12	7	2	1	0	13	0	2	0	1	0	2	0
May	0	0	0	0	15	11	4	1	0	14	0	0	0	0	0	4	0
Jun	0	0	0	0	11	8	3	3	0	12	0	0	0	0	0	2	0
Jul	0	0	0	0	15	9	7	3	0	13	0	0	0	0	0	7	2
Aug	1	0	0	0	8	3	0	0	0	8	2	0	0	0	0	2	3
Sep	1	0	0	0	12	8	5	2	0	12	3	0	0	0	0	4	3
Oct	0	0	3	0	6	5	3	1	0	6	0	0	0	0	0	1	0
Nov	0	1	18	0	7	6	0	0	1	9	0	4	0	0	0	0	3
Dec	0	15	29	2	14	7	3	3	2	10	0	15	6	3	0	2	5
Total	2	45	128	5	138	81	36	16	8	124	10	60	11	10	0	31	25
Dep	-18	3	9	-3	20	8	10	5	-1	8	-25	20	2		-4	-11	-24



2008 GROWING SEASON SUMMARY

Season	Mean Temp (°F)	Depart* from Average	Precip (in)	Depart* from Average	Snowfall (in)	Depart* from Average
Winter**	27.3	-0.6	11.22	4.56	24.3	4.1
Spring	49.4	-2.1	11.92	0.26	2	-1.8
Summer	73.0	-0.3	15.07	1.82		
Fall	53.9	0.0	12.42	2.94	2.4	0.2

*All climatological averages based on 1971-2000 data

**December 2007 – February 2008

CHAMPAIGN – URBANA EXTREMES

Month	Temperature (°F)								Winds			
	2008		Period of Record		2008		Period of Record		2008		1989-2008	
	High Max	Date	High Max	Date	Low Min	Date	Low Min	Date	Peak Gust	Date	Peak Gust	Date
Jan	67	7	70	23/1909	-4	25	-25	05/1999-t	46.4	29	46.4	29/2008
Feb	55	4	72	25/2000	3	11	-25	13/1905-t	33.7	18	55.2	11/1999
Mar	67	2	85	24/1910-t	13	8	-5	17/1906	31.6	31	58.9	15/1990
Apr	81	23,25	95	17/1894	28	2	15	02/1899	37.6	25	49.7	18/1995
May	86	30	97	31/1934	37	4	26	01/1903	31.2	2	45.1	9/1990
Jun	89	8,12	103	25/1988-t	55	17,18	34	06/1894	46.2	15	47.9	8/1993
Jul	89	20	109	14/1954	56	1,24	41	02/1904	32.9	12	38.5	28/1999
Aug	90	4	102	17/1988	55	26	37	30/1893-t	26.8	5	39.4	9/1995
Sep	92	2	102	05/1899	47	30	24	30/1899	24.2	14	45.8	8/1989
Oct	85	12	93	03/1954	29	28,29	12	30/1895	31.0	26	44.8	30/1996
Nov	73	2,3	80	01/1950	14	22	-5	25/1950	23.8	8	51.4	21/1994
Dec	62	27	71	04/1998	-2	21	-20	24/1983-t	35.6	28	48.4	15/1992
Annual	92	09/02	109	07/14/1954	-4	1/25	-25	01/19/1994	46.4	01/25	58.9	03/15/1990



Month	Daily Precipitation Extremes								Monthly Precipitation Extremes					
	2008		Period of Record		2008		1903-2008		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	1.40	8	2.43	26/1967	0.5	22	11.4	31/1982	7.62	1950	0.06	1986-t	28.3	1979
Feb	2.23	6	2.30	22/1990	6.2	1	11.0	21/1912	6.05	1990	0.15	1947	20.0	2007
Mar	0.71	18	2.93	13/1917	2.0	5	14.0	20/1906	8.35	1922	0.38	1910	32.0	1906
Apr	1.29	11	3.09	20/1964	0.0	-	6.0	5/1920	9.55	1964	0.50	1899	8.0	1920
May	1.40	31	4.50	26/1921	0.0	-	2.5	2/1929	11.20	1943	0.22	1925	2.5	1929
Jun	2.46	4	3.89	19/1983					11.58	1902	0.32	1988		
Jul	1.88	9	4.43	30/1987					13.82	1992	0.47	1930-t		
Aug	0.34	29	5.32	12/1993					10.02	1993	0.06	1893		
Sep	3.30	15	3.91	15/1931					9.76	1926	0.06	1891		
Oct	1.12	8	3.72	21/1983	0.0	-	2.8	19/1989	9.01	1941	0.16	1964	3.3	1989
Nov	0.27	15	4.07	02/1936	2.4	30	9.1	27/1980	10.08	1985	0.00	1904	11.2	1932
Dec	1.41	28	2.97	13/1901	1.5	1	9.5	19/1973	6.63	1967	0.05	1890	19.1	1983
Annual	3.30	09/15	5.32	08/12/1993	6.2	2/1	14.0	03/20/1906	58.54	1993	18.28	1894	51.9	1977

SEASONAL STATISTICS

Last 32°F temperature in spring:	April 15 (30°F)
First 32°F temperature in fall:	October 28 (29°F)
Length of growing season:	194 days (+14)
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)



