



CHAMPAIGN-URBANA 2009 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 2009 was 51.24" (10.19" above normal) and the fifth wettest year on record since 1889. The mean annual temperature for 2009 was 51.2°F (0.5°F below normal). The snowfall for the snowfall season of October 2008 to April 2009 was 19.5", 6.7" below the 1971-2000 normal of 26.2".



2009 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	27.7	9.9	18.8	46	-17	0.68	9.9	1427	0		267	6.1	32.2
Feb	40.5	21.8	31.2	62	-2	1.68	2.0	941	0		258	7.1	38.8
Mar	54.7	32.2	43.5	75	10	2.62	0.2	659	0		181	6.5	43.3
Apr	60.9	41.1	51.0	82	29	6.94	0.4	435	21	207	277	6.5	37.4
May	73.9	52.6	63.3	86	42	5.71	0.0	109	62	442	248	3.4	26.2
Jun	84.5	64.6	74.6	97	49	4.42	0.0	11	307	712	266	3.3	34.6
Jul	79.2	60.8	70.0	87	56	6.29	0.0	0	164	628	277	2.6	23.8
Aug	80.5	60.4	70.5	91	47	5.62	0.0	14	190	633	230	2.7	30.1
Sep	76.4	57.0	66.7	83	47	0.80	0.0	32	93	513	33	2.7	28.5
Oct	58.0	41.5	49.8	72	31	8.79	0.0	463	0		196	4.1	31.4
Nov	55.6	36.8	46.2	74	28	3.92	0.0	557	0		163	5.1	25.8
Dec	35.5	21.1	28.3	56	6	3.77	6.9	1132	0		163	6.1	42.5
2009	60.6	41.7	51.2	97	-17	51.24	19.4	5780	837	3135	213	4.7	43.3
Depart	-0.7	-0.4	-0.5			10.19	-6.8	-45	-149	-70		-1.7	

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	20	31	4	6	3	0	0	2	2	0	18	2	0	0	0	2
Feb	0	8	24	2	8	4	1	0	1	7	1	9	1	0	0	1	5
Mar	0	4	14	0	7	6	2	0	0	9	0	2	0	0	0	2	2
Apr	0	0	7	0	14	11	6	1	0	17	0	2	0	1	1	5	3
May	0	0	0	0	14	8	4	2	0	17	0	0	0	0	1	5	1
Jun	10	0	0	0	14	9	3	2	0	14	0	0	0	0	1	9	2
Jul	0	0	0	0	11	6	5	3	0	11	0	0	0	0	0	4	2
Aug	3	0	0	0	12	6	5	1	0	13	0	0	0	0	0	6	8
Sep	0	0	0	0	7	2	0	0	0	6	0	0	0	0	0	0	8
Oct	0	0	1	0	20	13	5	3	0	19	1	0	0	0	0	2	4
Nov	0	0	9	0	12	6	3	2	0	11	0	4	0	0	0	0	5
Dec	0	10	28	0	11	7	4	1	2	7	1	14	0	0	0	0	6
Total	13	42	114	6	136	81	38	15	5	133	3	49	3	1	3	34	48
Dep	-7	0	-5	-2	18	8	12	4	-4	17	-32	9	-6		-1	-8	-1



2009 GROWING SEASON SUMMARY

Season	Mean Temp (°F)	Depart* from Average	Precip (in)	Depart* from Average	Snowfall (in)	Depart* from Average
Winter**	25.4	-2.5	7.25	0.59	16.1	-4.1
Spring	52.6	1.1	15.27	3.61	0.6	-3.2
Summer	71.7	-1.6	16.33	3.08		
Fall	54.2	0.3	13.51	4.03	0	-2.2

*All climatological averages based on 1971-2000 data

**December 2008 – February 2009

CHAMPAIGN – URBANA EXTREMES

Month	Temperature (°F)								Winds			
	2009		Period of Record		2009		Period of Record		2009		1989-2009	
	High Max	Date	High Max	Date	Low Min	Date	Low Min	Date	Peak Gust	Date	Peak Gust	Date
Jan	46	4	70	23/1909	-17	16	-25	05/1999-t	32.2	29	46.4	29/2008
Feb	62	9,10	72	25/2000	-2	5	-25	13/1905-t	38.8	11	55.2	11/1999
Mar	75	24	85	24/1910-t	10	3	-5	17/1906	43.3	8	58.9	15/1990
Apr	82	25,26	95	17/1894	29	7,8	15	02/1899	37.4	20	49.7	18/1995
May	86	22,24	97	31/1934	42	17,18	26	01/1903	26.2	15	45.1	9/1990
Jun	97	24	103	25/1988-t	49	4	34	06/1894	34.6	18	47.9	8/1993
Jul	87	28	109	14/1954	56	20	41	02/1904	23.8	24	38.5	28/1999
Aug	91	9	102	17/1988	47	31	37	30/1893-t	30.1	19	39.4	9/1995
Sep	83	15	102	05/1899	47	30	24	30/1899	28.5	28	45.8	8/1989
Oct	72	20	93	03/1954	31	18	12	30/1895	31.4	30	44.8	30/1996
Nov	74	8	80	01/1950	28	27	-5	25/1950	25.8	10	51.4	21/1994
Dec	56	1	71	04/1998	6	10	-20	24/1983-t	42.5	9	48.4	15/1992
Annual	97	09/02	109	07/14/1954	-17	1/25	-25	01/19/1994	43.3	01/25	58.9	03/15/1990



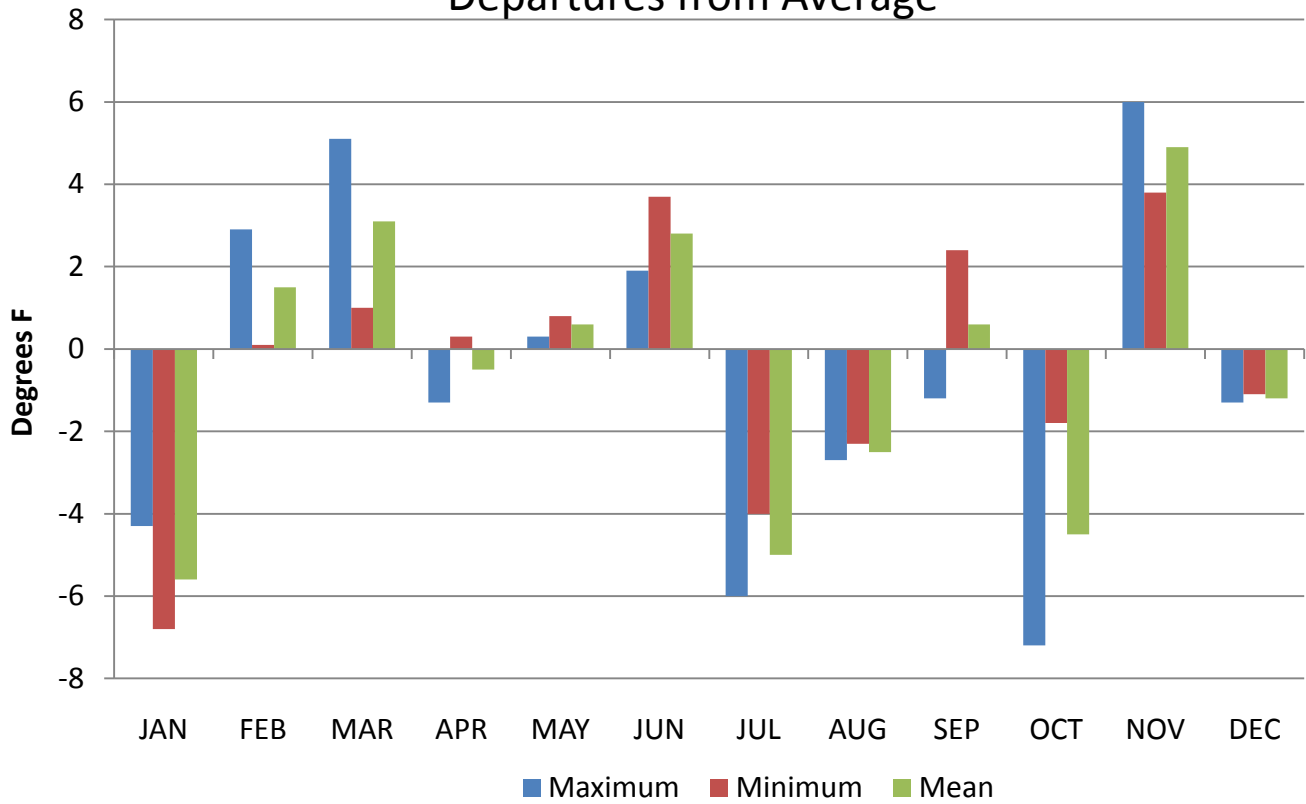
Month	Daily Precipitation Extremes								Monthly Precipitation Extremes					
	2009		Period of Record		2009		1903-2009		Period of Record					
	Max 24-hour Precip	Date	Max 24-hour Precip	Date	Max 24-hour Snow	Date	Max 24-hour Snow	Date	High Precip	Year	Low Precip	Year	High Snowfall	Year
Jan	0.37	28	2.43	26/1967	4.5	14	11.4	31/1982	7.62	1950	0.06	1986-t	28.3	1979
Feb	0.79	11	2.30	22/1990	1.1	3	11.0	21/1912	6.05	1990	0.15	1947	20.0	2007
Mar	0.76	25	2.93	13/1917	0.2	29	14.0	20/1906	8.35	1922	0.38	1910	32.0	1906
Apr	1.85	28	3.09	20/1964	0.4	6	6.0	5/1920	9.55	1964	0.50	1899	8.0	1920
May	1.44	14	4.50	26/1921	0.0	-	2.5	2/1929	11.20	1943	0.22	1925	2.5	1929
Jun	1.13	18	3.89	19/1983					11.58	1902	0.32	1988		
Jul	1.67	9	4.43	30/1987					13.82	1992	0.47	1930-t		
Aug	2.67	28	5.32	12/1993					10.02	1993	0.06	1893		
Sep	0.40	23	3.91	15/1931					9.76	1926	0.06	1891		
Oct	1.97	9	3.72	21/1983	0.0	-	2.8	19/1989	9.01	1941	0.16	1964	3.3	1989
Nov	1.51	16	4.07	02/1936	0.0	-	9.1	27/1980	10.08	1985	0.00	1904	11.2	1932
Dec	1.18	25	2.97	13/1901	2.9	28	9.5	19/1973	6.63	1967	0.05	1890	19.1	1983
Annual	2.67	09/15	5.32	08/12/1993	4.5	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 12 (31°F)
First 32°F temperature in fall:	October 18 (31°F)
Length of growing season:	190 days (+12)
Growing season precipitation (4/1-9/30):	26.83 inches (+1.91 inches)
Total growing season Corn GDD (4/1-9/30):	3,135 (-70)



2009 Monthly Temperatures Departures from Average





2009 Monthly Precipitation & Snowfall Departure from Average

