

Local Climatological Data

Champaign-Urbana, IL - 118740

September 1999

Illinois State Water Survey
Water Survey Research Center

DATE	TEMPERATURE			PRECIP (in)	SNOW (in)		WEATHER TYPES	WIND			SKY COVER	DEGREE DAYS			
	Max	Min	Mean		Amnt	Depth		Dir	Speed	Peak		Gust	Heat	Cool	Corn
1	90	57	74	0.00	0.0	0		E	1.5	9.0	S	CLR	0	9	22
2	91	61	76	0.00	0.0	0		E	1.9	8.9	SE	PC	0	11	24
3	90	64	77	0.00	0.0	0		E	1.9	10.0	SE	CLR	0	12	25
4	92	65	79	0.00	0.0	0		NE	2.0	10.6	SE	CLR	0	14	26
5	94	63	79	0.00	0.0	0		N	2.6	11.8	NW	CLR	0	14	25
6	80	64	72	0.00	0.0	0		N	4.7	14.9	NW	CLR	0	7	22
7	84	53	69	0.00	0.0	0		NE	1.5	10.1	NE	CLR	0	4	19
8	84	54	69	0.00	0.0	0		NW	4.0	16.6	SW	PC	0	4	19
9	76	46	61	0.00	0.0	0		W	6.0	27.9	W	CLR	4	0	13
10	78	45	62	0.00	0.0	0		W	4.3	18.4	W	CLR	3	0	14
11	88	52	70	0.00	0.0	0		SW	2.9	14.5	SW	CLR	0	5	19
12	84	62	73	0.13	0.0	0	R-	SW	5.0	21.1	W	CLDY	0	8	23
13	71	48	60	0.00	0.0	0	F	W	5.9	22.8	NW	CLR	5	0	11
14	75	45	60	0.00	0.0	0		W	4.0	16.6	W	CLR	5	0	13
15	75	52	64	0.00	0.0	0		N	3.8	13.5	N	PC	1	0	14
16	73	48	61	0.00	0.0	0		N	3.7	15.0	N	CLR	4	0	12
17	74	45	60	0.00	0.0	0		N	1.5	9.3	N	CLR	5	0	12
18	80	47	64	0.00	0.0	0		SW	1.8	10.1	S	CLR	1	0	15
19	74	50	62	T	0.0	0	RW-	SW	4.1	16.1	W	CLDY	3	0	12
20	73	48	61	0.00	0.0	0		N	4.6	16.8	N	CLDY	4	0	12
21	66	42	54	0.00	0.0	0		N	4.5	17.1	NE	PC	11	0	8
22	73	38	56	0.00	0.0	0		W	2.4	14.0	W	CLR	9	0	12
23	80	42	61	0.00	0.0	0		SW	6.1	22.7	SW	CLR	4	0	15
24	76	52	64	0.00	0.0	0		NE	3.6	12.2	SW	CLR	1	0	14
25	88	47	68	0.00	0.0	0		S	4.0	16.7	S	CLR	0	3	18
26	86	50	68	0.00	0.0	0		S	7.0	26.7	S	CLR	0	3	18
27	88	60	74	0.00	0.0	0		S	5.3	18.3	SW	PC	0	9	23
28	85	53	69	1.53	0.0	0	TRW+, RW-	N	4.7	17.4	NW	CLDY	0	4	19
29	66	44	55	0.25	0.0	0	RW-	N	6.0	18.2	N	PC	10	0	8
30	69	39	54	0.00	0.0	0		SW	5.5	18.2	SW	CLR	11	0	10
AVG/TOT	80.1	51.2	65.7	1.91	0.0			N	3.9				81	107	497
DEP.	+2.4	-4.0	-0.8	-1.45	0.0			SW	-1.2				0	-10	-3

NUMBER OF DAYS and DEPARTURE

	MAX TEMP				PRECIPITATION					SNOW	SKY COVER		
	>=90	<=32	<=32	<=0	>T	>=.01	>=.10	>=.50	>=1.00	>=1.0	CLR	PC	CLDY
TOTAL	5	0	0	0	4	3	3	1	1	0	20	6	4
DEP	+3	0	0	0	-6	-2	-1	0	0	0	+9	-3	-6

	WEATHER TYPES											SEASONAL DEGREE DAYS			PRECIPITATION
	R	L	S	Z	IP	A	T	F	D	H	BS	HEATING	COOLING	CORN	JAN-September
TOTAL	4	0	0	0	0	0	1	1	0	0	0	81	1022	3419	34.76
DEP	-6	-3	0	0			-3	-4				-9	+66	+155	+3.83

Averages based on 1961-1990 The daily sky condition is determined by the prevailing sky condition of three observations made between 7am and 7pm Snow depth at 7am LST. All other data M = Missing

WEATHER TYPES:

R = Rain Z = Freezing rain/drizzle D = Dust
 L = Drizzle IP = Sleet H = Haze
 S = Snow A = Hail BS = Blowing snow
 T = Thunder F = Fog RW = Rainshower SW = Snowshower

PRECIP INTENSITY: - Light Precip amount "T"

+

DEGREE DAYS: Heat and Cool base 65F. Corn Growing base 50F. Heating DD season July-June. Cool and Corn DD season

Champaign-Urbana Weather Highlights – September 1999

ILLINOIS STATE WATER SURVEY
 2204 Griffith Dr.
 Champaign, IL 61820
 wxobsrvr@sws.uiuc.edu

Correction to August highlights: The descriptions of summer and August precipitation were inadvertently combined. The text should read as follows:

“Rainfall was quite variable across Champaign-Urbana during August, ranging from 3.13” just north of Champaign to 6.55” just west of Willard Airport. Most amounts in Champaign-Urbana ranged from four to five inches this month.

Summer precipitation totaled 15.30”, 2.73” above normal.”

September was climatologically a very interesting month. Measurable precipitation occurred on only three days. Only 0.13” of rain fell in the 34-day period from August 25th through September 27th. Through September 27 Champaign-Urbana was on track for the driest September on record, as was the entire state of Illinois. However, the slow-moving cold front that brought 1.78 inches of rain to Champaign-Urbana on September 28-29 ended the possibility of establishing a new record. The 1.91 inches of rain this month ranks this September as the 36th driest on record. The record is 0.25 inches in September 1954.

The month began with a string of five days with temperatures at or above 90°F. From then on the month was generally cool, occasionally interspersed with a few warm days. The air was uncharacteristically dry, with dewpoints in the 40s and 50s much of the month, even on the warm days. This contributed to the mean maximum and minimum temperature departures in opposite directions. The mean maximum for the month was 80.1°F, 2.4 degrees *above* normal, but the mean minimum was 51.2°F, 4.0 degrees *below* normal. The result was that the mean temperature for the month was only 0.8°F below normal. The dry air resulted in less cloudiness (nine more clear days than normal), and allowed nighttime temperatures to regularly drop into the 50s and 40s.

