

MONTHLY CLIMATE SUMMARY, JULY 2011

NIU WEATHER SERVICE: DE KALB, ILL.

Day	Record HI	Record LO	Average HI	Average LO	Obs. HI	Obs. LO	Obs. Avg.	GDD	CDD	HDD	Precip. (in)	Snowfall (in)
1	101	43	82	60	88	68	78	28	13	0	0.00	0.0
2	104	45	81	60	85	75	80	30	15	0	0.00	0.0
3	102	41	82	61	90	67	78.5	28.5	13.5	0	0.00	0.0
4	106	43	83	64	82	66	74	24	9	0	0.00	0.0
5	104	45	84	63	86	66	76	26	11	0	0.00	0.0
6	105	43	84	63	89	69	79	29	14	0	0.00	0.0
7	103	46	84	62	87	62	74.5	24.5	9.5	0	0.16	0.0
8	105	41	83	63	82	60	71	21	6	0	0.00	0.0
9	101	47	85	64	86	62	74	24	9	0	0.00	0.0
10	105	46	84	63	88	68	78	28	13	0	0.00	0.0
11	107	42	83	61	89	72	80.5	30.5	15.5	0	0.09	0.0
12	106	45	83	63	86	67	76.5	26.5	11.5	0	0.48	0.0
13	106	44	83	63	86	68	77	27	12	0	0.05	0.0
14	109	45	84	64	75	59	67	17	2	0	0.00	0.0
15	98	42	84	63	82	59	70.5	20.5	5.5	0	0.00	0.0
16	100	40	85	64	83	69	76	26	11	0	T	0.0
17	100	43	86	65	86	70	78	28	13	0	0.00	0.0
18	100	44	85	66	93	74	83.5	33.5	18.5	0	0.01	0.0
19	100	45	85	65	90	78	84	34	19	0	T	0.0
20	102	47	85	64	95	77	86	36	21	0	0.00	0.0
21	106	46	84	65	97	76	86.5	36.5	21.5	0	0.00	0.0
22	103	43	83	63	94	71	82.5	32.5	17.5	0	0.35	0.0
23	106	45	82	62	88	69	78.5	28.5	13.5	0	0.82	0.0
24	106	48	82	61	85	69	77	27	12	0	1.47	0.0
25	104	41	84	63	82	68	75	25	10	0	0.15	0.0
26	105	46	83	63	86	69	77.5	27.5	12.5	0	0.00	0.0
27	102	46	83	63	86	62	74	24	9	0	0.00	0.0
28	103	48	83	63	89	66	77.5	27.5	12.5	0	0.98	0.0
29	104	46	83	62	85	72	78.5	28.5	13.5	0	0.72	0.0
30	104	45	83	63	86	69	77.5	27.5	12.5	0	T	0.0
31	104	44	83	63	88	68	78	28	13	0	0.00	0.0

Temperature

1981-2010 AVG. HI: 82.2(F)
 1981-2010 AVG. LOW: 62.9(F)
 1981-2010 AVG. TEMP.: 73.2(F)
 July 2011 AVG. HI: 86.9(F)
 July 2011 AVG. LO: 68.2(F)
 July 2011 AVG. TEMP.: 77.6(F)

Precipitation

July 2011 TOTAL: 5.28 in.
 July AVG.: 4.32 in.
 July 2011 SNOW: 0
 July SNOW AVG: 0
 2011 liquid-eq. YEAR TO DATE: 25.65 in.
 liquid-eq. YEAR TO DATE AVG.: 21.59 in.
 2011-12 Seasonal SNOW TO DATE: 0
 Seasonal SNOW TO DATE AVG.: 0

Degree Days

COOLING: 7/11: 376.5
 1/11-Now: 615.5
 HEATING: 7/11: 0
 7/11-Now: 0
 GROWING: 7/11: 826.5
 1/11-Now: 1674

Discussion

July 2011 temperatures were much warmer than the historical (30-year, 1981-2010) averages. With a mean temperature of 77.6 degrees, this July was the sixth-warmest on record since 1896. Only July 1901, 1955, 1916, 1936, 1983, and 1921 (in this order) were warmer by this measure. Although the average high temperature for the month was 86.9 degrees, some 4.7 degrees above the historical average of 82.2 degrees, it was elevated low (nighttime) temperatures that were particularly anomalous. The monthly average low temperature of 68.2 degrees represented the highest such value on record for any month. The next highest such value for July was 67.2 degrees in July 1999; the next highest for any month was 67.8 degrees in August 1995. The warmest temperatures occurred between the 18th and 22nd. During this period, on the 19th, a low temperature of 78 degrees was recorded, the warmest low temperature since 21 July 2002, when 78 degrees was recorded, and one of only nine instances on record of a low temperature as high or higher.

Total liquid-equivalent precipitation for July 2011 was 5.28 in., some 122 percent of the historical average total of 4.32 in. Although monthly rainfall was above the historical average, the rainfall was not evenly distributed temporally. Eighty-five percent of the total liquid-equivalent was recorded on or after the 22nd. In fact, the 21 July US Drought Monitor labeled much of northern Illinois as "abnormally dry"; this label no longer applies in DeKalb County. Year-to-date liquid-equivalent totaled 25.65 in. as of the end of the month, some 119 percent of the historical average value of 21.59 in.

A. Dawson, D. Dziubla, B. Heartcell, T. Herman, R. Niesen, A. Osborne, L. Schutte, and S. Strader —Cooperative Observers; D.J. Brouillette—Weather Director
 Special acknowledgment is given to Laura Schutte for serving as Summertime Observer-Director Liaison.

This summary was prepared by Daniel J. Brouillette, 01 August 2011. Forecast information (updated once daily at approx. 7:30 am): (815) 753-1623.

Climate Website: <http://climate.niu.edu>

The Climate Summary is supported by the Department of Geography, the College of Liberal Arts and Sciences, and the Department of Operations.

July 2011 Daily Highs and Lows with 1981-2010 Average Highs and Lows
 Prepared by Daniel J. Brouillette, NIU Weather Director

