

# MONTHLY CLIMATE SUMMARY, AUGUST 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	98	42	84	62	90	69	79.5	29.5	14.5	0	0.00	0.0
2	98	44	86	63	89	73	81	31	16	0	0.00	0.0
3	100	42	85	64	92	73	82.5	32.5	17.5	0	0.57	0.0
4	99	44	85	64	85	66	75.5	25.5	10.5	0	0.00	0.0
5	100	43	83	62	83	67	75	25	10	0	0.00	0.0
6	102	44	82	62	82	68	75	25	10	0	0.46	0.0
7	100	46	82	62	85	69	77	27	12	0	0.01	0.0
8	103	43	82	62	87	67	77	27	12	0	0.10	0.0
9	102	44	84	62	80	64	72	22	7	0	0.46	0.0
10	98	47	83	62	78	57	67.5	17.5	2.5	0	0.00	0.0
11	97	45	81	61	76	56	66	16	1	0	0.00	0.0
12	104	45	81	60	79	58	68.5	18.5	3.5	0	0.00	0.0
13	98	47	81	61	81	61	71	21	6	0	0.00	0.0
14	99	43	81	61	82	59	70.5	20.5	5.5	0	0.55	0.0
15	97	44	81	61	75	55	65	15	0	0	0.00	0.0
16	99	42	83	61	79	58	68.5	18.5	3.5	0	0.00	0.0
17	103	44	83	62	80	60	70	20	5	0	0.00	0.0
18	102	43	82	61	84	64	74	24	9	0	0.00	0.0
19	100	45	80	60	82	64	73	23	8	0	0.00	0.0
20	100	40	80	60	88	66	77	27	12	0	0.00	0.0
21	100	42	81	59	78	64	71	21	6	0	1.65	0.0
22	99	41	81	61	78	59	68.5	18.5	3.5	0	0.00	0.0
23	100	43	81	60	82	60	71	21	6	0	0.00	0.0
24	100	40	81	60	75	64	69.5	19.5	4.5	0	1.27	0.0
25	95	41	80	61	90	59	74.5	24.5	9.5	0	0.00	0.0
26	97	42	81	62	80	59	69.5	19.5	4.5	0	0.00	0.0
27	97	40	81	63	82	60	71	21	6	0	0.00	0.0
28	99	39	81	61	83	56	69.5	19.5	4.5	0	0.00	0.0
29	96	38	80	60	74	56	65	15	0	0	0.00	0.0
30	98	36	80	59	78	57	67.5	17.5	2.5	0	0.00	0.0
31	100	35	79	58	75	61	68	18	3	0	0.22	0.0

### Temperature

1981-2010 AVG. HI: 81.6(F)  
 1981-2010 AVG. LOW: 61.1(F)  
 1981-2010 AVG. TEMP.: 71.4(F)  
 August 2011 AVG. HI: 81.9(F)  
 August 2011 AVG. LO: 62.3(F)  
 August 2011 AVG. TEMP.: 72.1(F)

### Precipitation

August 2011 TOTAL: 5.29 in.  
 August AVG.: 4.34 in.  
 August 2011 SNOW: 0  
 August SNOW AVG: 0  
 2011 liquid-eq. YEAR TO DATE: 30.94 in.  
 liquid-eq. YEAR TO DATE AVG.: 25.92 in.  
 2011-12 Seasonal SNOW TO DATE: 0  
 Seasonal SNOW TO DATE AVG.: 0

### Degree Days

COOLING: 8/11: 212.5  
 1/11-Now: 828  
 HEATING: 8/11: 0  
 7/11-Now: 0  
 GROWING: 8/11: 662.5  
 1/11-Now: 2336.5

### Discussion

August had a mean temperature near to slightly above the historical (30-year, 1981-2010) average. In fact, the mean temperature was 72.1 degrees, some 0.7 degrees above the historical average. The anomaly in high temperatures (+0.3 degrees) was more positive than the anomaly in low temperature (+1.2 degrees), which represented a continuation of the trend in anomalies of June and July and recent summers more broadly. The warmest temperatures were recorded early in the month, on the 20<sup>th</sup>, and on the 25<sup>th</sup>, when high temperatures in the upper 80's to lower 90's and low temperatures in the upper 60's to lower 70's occurred. At no time during the month were temperatures more than about five degrees below the historical averages; temperatures were mainly near the historical averages.

Liquid-equivalent precipitation in August totaled 5.29 in., some 122 percent of the historical average total of 4.34 in. The temporal distribution of the rainfall was relatively even. The year-to-date liquid-equivalent precipitation total as of 31 August was 30.94 in., some 119 percent of the historical average value of 25.92 in.

The mean temperature for Summer 2011 was 73.2 degrees, which tied with 1959 for 17<sup>th</sup> highest on record since 1896. Interestingly, the mean low temperature during the period was 63.6 degrees, which tied for 6<sup>th</sup> highest on record. Liquid-equivalent precipitation during the summer totaled some 15.28 in., some 119 percent of the historical average total of 12.84 in., and tied with 1915 for the 21<sup>st</sup>-highest value on record. Therefore, Summer 2011, overall, featured much-above-average temperatures and precipitation.

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 This summary was prepared by Daniel J. Brouillette, 31 August 2011. Forecast information (updated once daily at approx. 7:30 am): (815) 753-1623.  
 Climate Website: <http://climate.niu.edu>

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

