

# MONTHLY CLIMATE SUMMARY, AUGUST 2016

## NIU WEATHER SERVICE: DE KALB, IL.

Day	Record HI	Record LO	Average HI	Average LO	Obs. HI	Obs. LO	Obs. Avg.	CDD	HDD	GDD	Precip. (in)	Snowfall (in)
1	98	42	84	62	81	63	72	7	0	22	0	0
2	98	44	86	63	84	68	76	11	0	26	0	0
3	100	42	85	64	85	70	77.5	12.5	0	27.5	0	0
4	99	44	85	64	87	69	78	13	0	28	0	0
5	100	43	83	62	87	69	78	13	0	28	0.82	0
6	102	44	82	62	82	62	72	7	0	22	0	0
7	100	46	82	62	80	61	70.5	5.5	0	20.5	0	0
8	103	43	82	62	80	64	72	7	0	22	0	0
9	102	44	84	62	84	67	75.5	10.5	0	25.5	0	0
10	98	47	83	62	85	68	76.5	11.5	0	26.5	0	0
11	97	45	81	61	88	71	79.5	14.5	0	29.5	0	0
12	104	45	81	60	88	71	79.5	14.5	0	29.5	0.14	0
13	98	47	81	61	78	70	74	9	0	24	0.37	0
14	99	43	81	61	83	63	73	8	0	23	0.05	0
15	97	44	81	61	82	65	73.5	8.5	0	23.5	0	0
16	99	42	83	61	79	67	73	8	0	23	T	0
17	103	44	83	62	84	68	76	11	0	26	0	0
18	102	43	82	61	86	68	77	12	0	27	0.04	0
19	100	45	80	60	86	66	76	11	0	26	1.87	0
20	100	40	80	60	84	66	75	10	0	25	0.25	0
21	100	42	81	59	77	56	66.5	1.5	0	16.5	0.54	0
22	99	41	81	61	74	55	64.5	0	0.5	14.5	0	0
23	100	43	81	60	77	55	66	1	0	16	0	0
24	100	40	81	60	80	60	70	5	0	20	0.18	0
25	95	41	80	61	84	68	76	11	0	26	0.85	0
26	97	42	81	62	84	63	73.5	8.5	0	23.5	T	0
27	97	40	81	63	79	64	71.5	6.5	0	21.5	0.25	0
28	99	39	81	61	81	67	74	9	0	24	0.89	0
29	96	38	80	60	86	69	77.5	12.5	0	27.5	T	0
30	98	36	80	59	86	67	76.5	11.5	0	26.5	1.43	0
31	100	35	79	58	83	66	74.5	9.5	0	24.5	0.02	0

### Temperature

1981-2010 AVG. HI: 81.6 (F)  
 1981-2010 AVG. LOW: 61.1 (F)  
 1981-2010 AVG. TEMP.: 71.4 (F)  
 August 2016 AVG. HI: 82.7 (F)  
 August 2016 AVG. LO: 65.4 (F)  
 August 2016 AVG. TEMP.: 74.0 (F)

### Precipitation

August 2016 TOTAL: 7.70 in.  
 August AVG.: 4.36 in.  
 August 2016 SNOW: 0  
 August SNOW AVG: 0  
 2016 liquid-eq. YEAR TO DATE: 29.85 in.  
 liquid-eq. YEAR TO DATE AVG.: 25.92 in.  
 2016-17 Seasonal SNOW TO DATE: 0  
 Seasonal SNOW TO DATE AVG.: 0

### Degree Days

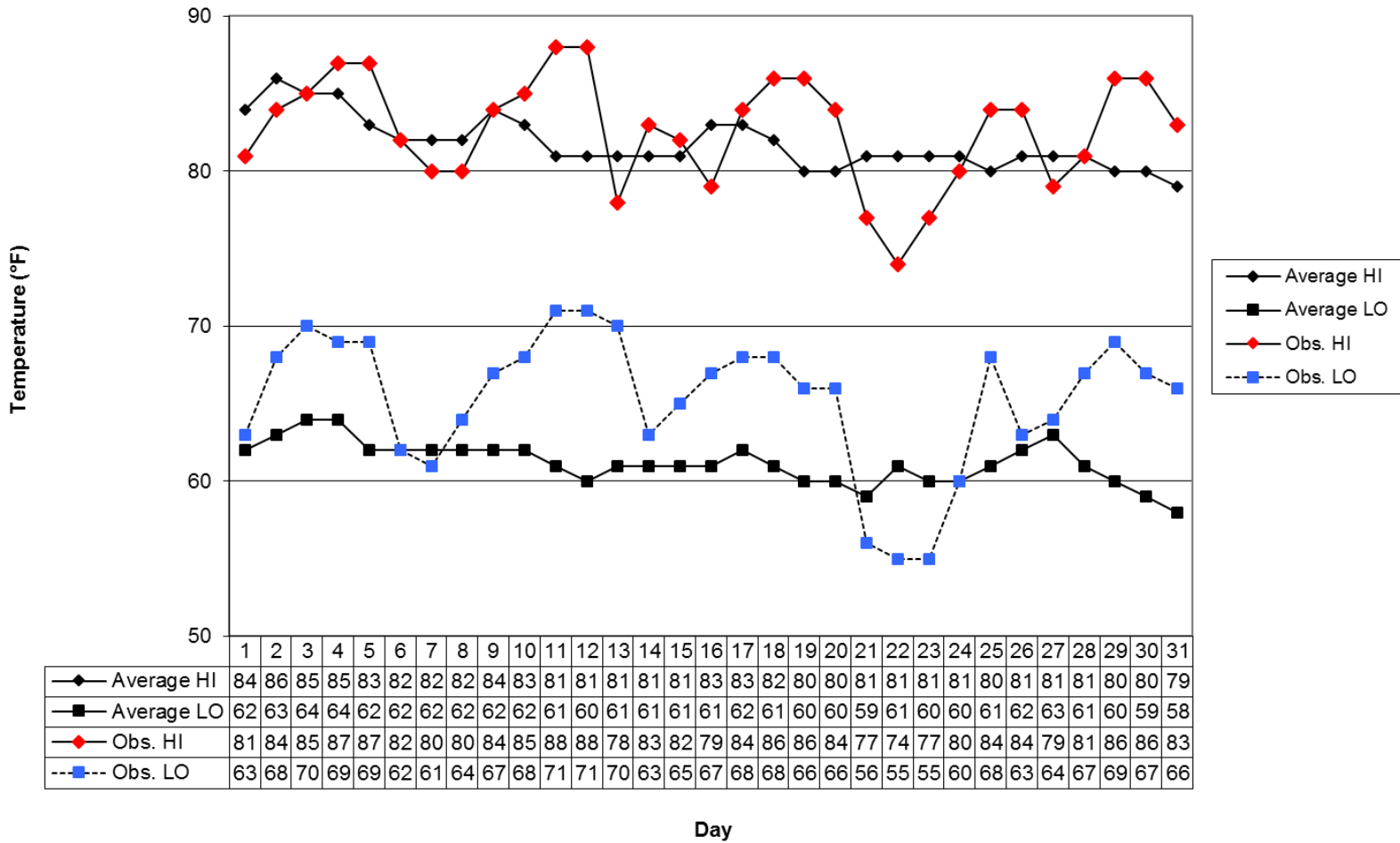
COOLING: 8/16: 280.5  
 1/16-Now: 830.5  
 HEATING: 8/16: 0.5  
 7/16-Now: 2.5  
 GROWING: 8/16: 745  
 1/16-Now: 2592

### Discussion

August 2016 temperatures were above the historical (30-year, 1981-2010) averages. The average high temperature of 82.7 degrees was 1.1 degrees higher than the historical average high temperature and the average low temperature of 65.4 degrees had the greatest departure at 4.3 degrees above the historical average low temperature. As a result, the average mean temperature was higher than the historical average mean temperature by 2.6 degrees. There were 16 days where observed temperatures were higher than their respective average temperatures. The highest temperatures were recorded on August 11<sup>th</sup> and 12<sup>th</sup> at 88 degrees.

The August precipitation total for 2016 was 7.70 in., which is 3.34 in. higher than the average precipitation for the month. Precipitation was scattered throughout August with the majority falling towards the end of the month. The year to date liquid equivalent total now stands at 29.85 in., which was 3.93 inches above the average. The end of the month accounted for nearly half (47%) of the total precipitation since there was at least a trace amount of precipitation reported every day from August 24<sup>th</sup>-31<sup>st</sup>.

**August 2016 Daily Highs and Lows with 1981-2010 Average Highs and Lows  
Prepared by Dominique Watson, NIU Weather Director**



	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
—◆— Average HI	84	86	85	85	83	82	82	82	84	83	81	81	81	81	81	83	83	82	80	80	81	81	81	81	80	81	81	81	81	80	80	79
—■— Average LO	62	63	64	64	62	62	62	62	62	62	61	60	61	61	61	61	62	61	60	60	59	61	60	60	61	62	63	61	60	59	58	
—◆— Obs. HI	81	84	85	87	87	82	80	80	84	85	88	88	78	83	82	79	84	86	86	84	77	74	77	80	84	84	79	81	86	86	83	
—■— Obs. LO	63	68	70	69	69	62	61	64	67	68	71	71	70	63	65	67	68	68	66	66	56	55	55	60	68	63	64	67	69	67	66	