MONTHLY CLIMATE SUMMARY, AUGUST 2010 NIU WEATHER SERVICE: DE KALB, ILL.

	Record	Record	Average	Average	Obs.	Obs.	Obs.				Precip.	Snowfall
Day	HI	LO	нĭ	LO	HI	LO	Avg.	CDD	HDD	GDD	(in)	(in)
1	98	42	83	61	76	63	69.5	4.5	0	19.5	0.02	0.0
2	98	44	82	62	84	64	74	9	0	24	0	0.0
3	100	42	83	62	83	66	74.5	9.5	0	24.5	1.12	0.0
4	99	44	84	62	86	69	77.5	12.5	0	27.5	0.54	0.0
5	100	43	82	60	81	68	74.5	9.5	0	24.5	0.45	0.0
6	102	44	81	61	81	61	71	6	0	21	0	0.0
7	100	46	81	61	80	62	71	6	0	21	0	0.0
8	103	43	83	62	84	65	74.5	9.5	0	24.5	0	0.0
9	102	44	83	61	87	67	77	12	0	27	0.17	0.0
10	98	47	82	61	88	71	79.5	14.5	0	29.5	Т	0.0
11	97	45	82	60	88	71	79.5	14.5	0	29.5	0.01	0.0
12	104	45	81	59	88	73	80.5	15.5	0	30.5	0	0.0
13	98	47	82	62	91	71	81	16	0	31	0	0.0
14	99	43	82	61	90	70	80	15	0	30	0.44	0.0
15	97	44	82	61	87	71	79	14	0	29	0	0.0
16	99	42	82	60	82	59	70.5	5.5	0	20.5	0	0.0
17	103	44	83	61	80	60	70	5	0	20	0	0.0
18	102	43	83	60	72	56	64	0	1	14	0.09	0.0
19	100	45	82	61	81	61	71	6	0	21	0	0.0
20	100	40	82	61	86	65	75.5	10.5	0	25.5	0	0.0
21	100	42	82	59	90	68	79	14	0	29	Т	0.0
22	99	41	82	61	84	66	75	10	0	25	0	0.0
23	99	43	81	60	83	63	73	8	0	23	0	0.0
24	100	40	81	60	82	61	71.5	6.5	0	21.5	0	0.0
25	95	41	81	59	83	56	69.5	4.5	0	19.5	0	0.0
26	97	42	82	62	77	53	65	0	0	15	0	0.0
27	97	40	83	63	78	54	66	1	0	16	0	0.0
28	99	39	83	62	84	58	71	6	0	21	0	0.0
29	96	38	81	60	87	62	74.5	9.5	0	24.5	0	0.0
30	98	36	81	60	92	67	79.5	14.5	0	29.5	0	0.0
31	100	35	81	60	86	67	76.5	11.5	0	26.5	0.12	0.0

<u>Temperature</u>	Precipitation	Degree Days
1971-2000 AVG. HI: 82.0(F)	August 2010 TOTAL: 2.96 in.	COOLING: 8/10: 280.5
1971-2000 AVG. LOW: 60.7(F)	August AVG: 4.45 in.	1/10-Now: 877.5
1971-2000 AVG. TEMP: 71.4(F)	August 2010 SNOW: 0.0 in.	HEATING: 8/10:1
August 2010 AVG. HI: 83.9(F)	2010 liquid-eq. YEAR TO DATE: 29.23 in.	7/10-Now: 1
August 2010 AVG. LO: 64.1(F)	liquid-eq. YEAR TO DATE AVG: 26.33 in.	GROWING: 8/10: 744.5
August 2010 AVG. TEMP: 74.0 (F)	2010-11 Seasonal SNOW TO DATE: 0.0 in.	1/10-Now: 2717
	Seasonal SNOW TO DATE AVG: 0.0 in.	

Discussion

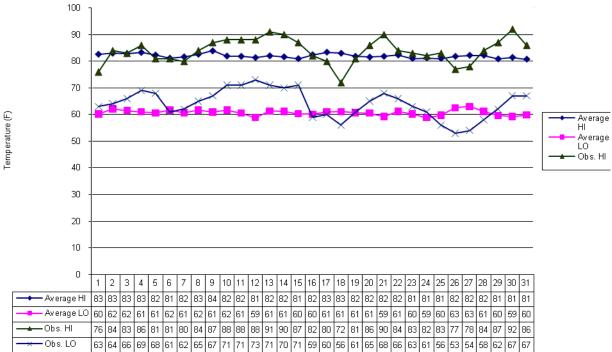
August 2010 featured temperatures well above the historical (30-year, 1971-2000) averages. The mean temperature of 74.0 degrees was 2.7 degrees above the historical average and tied with 1938 as the 16^{th} warmest since 1896. While the monthly average high temperature of 83.9 degrees was above historical average (by 1.9 degrees), it was, like during most of the summer due to high humidity, warm nightime temperatures that contributed particularly to the positive anomaly in the mean temperature. At 3.4 degrees above the historical average, the monthly average low temperature of 64.1 degrees ranked eighth greatest on record since 1896. The most torrid weather occurred between the 10° had the 15° , when daytime highs were in the upper 80's and lower 90's and nighttime lows in the lower to middle 70's.

Monthly precipitation totaled 2.96 in. and was only two-thirds of the historical average of 4.45 in. Seventy-two percent of the rainfall recorded during the month fell during the first five days, which suggests that precipitation lacked even distribution temporally. Indeed, no measurable precipitation was recorded between the 18th and the 30th until the 31st (from a brief shower the afternoon before). The relative dryness of August compared to the previous three months allowed NOAA Climate Prediction Centre's Crop Moisture Index to ameliorate to "slightly dry/favorably moist" as of 28 August.

Summer 2010 had a mean temperature of 73.4 degrees, which was 1.8 degrees above the historical average and ranked 15th warmest on record since 1896. Anomalously high low temperatures, on average 63.6 degrees, contributed to the high mean temperature and ranked fourth warmest on record since 1896. Precipitation was 124 percent of the historical average and ranked 16th greatest on record since 1896. So far this year, there have been 13 days recorded for which the high temperature was 90 degrees or greater and 13 days recorded for which the high temperature was 70 degrees or greater. Interestingly, the highest temperature recorded so far this year was in climatological spring (March April-May) and was 93 degrees on 25 May.

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August 2010 Daily Highs and Lows with 1971-2000 Average Highs and Lows Prepared by Daniel J. Brouillette, NIU Co-Weather Dir.

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