

MONTHLY CLIMATE SUMMARY, SEPTEMBER 2010

NIU WEATHER SERVICE: DE KALB, ILL.

Day	Record HI	Record LO	Average HI	Average LO	Obs. HI	Obs. LO	Obs. Avg.	CDD	HDD	GDD	Precip. (in)	Snowfall (in)
1	100	39	82	60	91	68	79.5	14.5	0	29.5	0.12	0
2	101	35	81	59	80	68	74	9	0	24	T	0
3	99	40	80	58	84	56	70	5	0	20	0.87	0
4	100	41	80	56	69	48	58.5	0	6.5	8.5	T	0
5	99	40	79	56	67	48	57.5	0	7.5	7.5	0	0
6	100	36	80	56	76	51	63.5	0	1.5	13.5	0.01	0
7	101	37	81	57	83	58	70.5	5.5	0	20.5	T	0
8	99	37	80	55	75	49	62	0	3	12	0	0
9	96	39	79	56	71	50	60.5	0	4.5	10.5	0	0
10	96	36	79	55	67	51	59	0	6	9	0	0
11	94	30	80	56	76	54	65	0	0	15	0.06	0
12	96	32	79	55	78	52	65	0	0	15	0.01	0
13	98	33	77	55	85	52	68.5	3.5	0	18.5	0	0
14	100	29	77	53	82	53	67.5	2.5	0	17.5	0	0
15	101	33	75	52	78	55	66.5	1.5	0	16.5	0	0
16	92	30	74	52	76	58	67	2	0	17	0	0
17	94	33	73	52	66	49	57.5	0	7.5	7.5	T	0
18	97	30	75	53	77	50	63.5	0	1.5	13.5	0	0
19	93	32	76	53	64	53	58.5	0	6.5	8.5	0.21	0
20	93	28	75	51	66	53	59.5	0	5.5	9.5	0.1	0
21	94	32	69	48	80	59	69.5	4.5	0	19.5	0.19	0
22	92	29	68	46	89	62	75.5	10.5	0	25.5	0.23	0
23	91	30	68	44	73	62	67.5	2.5	0	17.5	0.01	0
24	91	30	70	46	88	63	75.5	10.5	0	25.5	0.19	0
25	93	25	69	49	67	48	57.5	0	7.5	7.5	T	0
26	93	26	72	48	56	48	52	0	13	2	0.04	0
27	89	27	73	49	61	42	51.5	0	13.5	1.5	0	0
28	91	23	72	49	65	42	53.5	0	11.5	3.5	0	0
29	96	28	72	48	71	49	60	0	5	10	0	0
30	93	22	72	49	77	52	64.5	0	0.5	14.5	0	0

Temperature

1971-2000 AVG. HI: 75.6(F)
 1971-2000 AVG. LOW: 52.5(F)
 1971-2000 AVG. TEMP: 64.1(F)
 September 2010 AVG. HI: 74.6(F)
 September 2010 AVG. LO: 53.5(F)
 September 2010 AVG. TEMP: 64.0(F)

Precipitation

September 2010 TOTAL: 2.04 in.
 September AVG: 3.47 in.
 September 2010 SNOW: 0.0 in.
 2010 liquid-eq. YEAR TO DATE: 31.27 in.
 liquid-eq. YEAR TO DATE AVG: 29.80 in.
 2010-11 Seasonal SNOW TO DATE: 0.0 in.
 Seasonal SNOW TO DATE AVG: 0.0 in.

Degree Days

COOLING: 9/10: 71.5
 1/10-Now: 949
 HEATING: 9/10: 101
 7/10-Now: 102
 GROWING: 9/10: 420.5
 1/10-Now: 3137.5

Discussion

Temperatures in September 2010 averaged near the historical (30-year, 1971-2000) averages. The mean temperature was 74.6 degrees compared to the historical average of 75.6 degrees. While temperatures averaged near normal, there were periods of anomalously warm or even hot conditions interspersed by anomalously cool conditions. Indeed, a high of 91 degrees was recorded on the 1st, which brought the annual total of days on which a high temperature of 90 degrees or higher was recorded to 14 days. Other periods of anomalous warmth occurred around the 13th and 14th and between the 21st and 24th, when daily record high temperatures were threatened for the 22nd and 24th. Anomalously cool conditions, particularly during the day, were noted on the 4th and 5th, between the 17th and 20th, and between the 26th and 28th (when a high temperature of 56 degrees, some 16 degrees below the daily historical average high, was recorded).

Precipitation during September 2010 totaled 2.04 in., which was 59 percent of the historical average and lower than approximately 75 percent of Septembers since 1896. While the topsoil has dried to the extent that the NOAA Climate Prediction Centre's 25 September Crop Moisture Index shows "slightly dry/favorably moist conditions in northern Illinois (http://www.cpc.ncep.noaa.gov/products/analysis_monitoring/regional_monitoring/cmi.gif), deeper soil moisture remains high after a wet late spring and summer as evidenced by the CPC's Palmer Drought Severity Index of "very moist spell" for northern Illinois (http://www.cpc.ncep.noaa.gov/products/analysis_monitoring/regional_monitoring/palmer.gif). Nonetheless, it has been observed that the drier conditions of late allowed local farmers to begin an early harvest of dent corn as early as mid-month and soybeans in the last week.

For those interested, the end of Water Year 2010 (which began on 1 October 2009) was on 30 September, and the total liquid equivalent precipitation for WY-2010 was 43.10 in., 115 percent of the historical annual average of 37.40 in. Total snowfall for the period was 42.9 in., 123 percent of the historical annual average of 35.0 in.

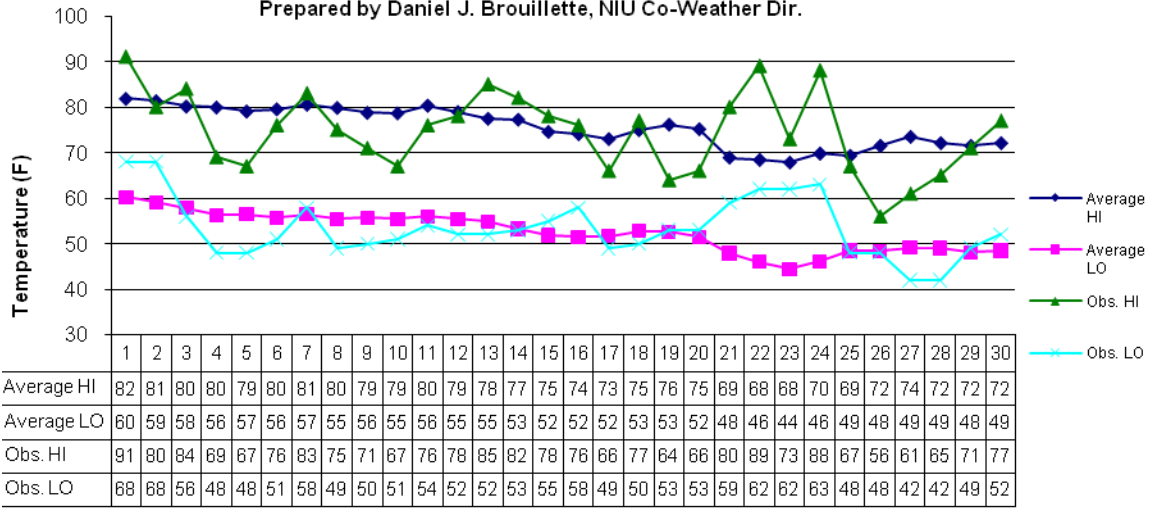
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This summary was prepared by Daniel J. Brouillette, 30 September 2010. Forecast information (updated once daily at approx. 7:30 am) (815) 753-1623.

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

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September 2007 Daily Highs and Lows with 1971-2000 Average Highs and Lows
 Prepared by Daniel J. Brouillette, NIU Co-Weather Dir.



Day