

**MONTHLY CLIMATE SUMMARY, APRIL 2011**  
**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	84	16	56	34	50	25	37.5	0	0	27.5	0.00	0.0
2	81	14	53	34	43	31	37	0	0	28	0.06	T
3	80	14	57	35	55	31	43	0	0	22	0.00	0.0
4	79	13	56	34	75	43	59	9	0	6	0.33	0.0
5	80	15	53	33	46	30	38	0	0	27	0.02	0.0
6	83	12	55	33	52	32	42	0	0	23	0.00	0.0
7	79	8	56	33	56	37	46.5	0	0	18.5	0.00	0.0
8	83	12	55	33	57	37	47	0	0	18	0.72	0.0
9	77	18	52	33	46	43	44.5	0	0	20.5	0.01	0.0
10	92	17	54	34	68	46	57	7	0	8	0.02	0.0
11	90	18	57	35	83	46	64.5	14.5	0	0.5	0.05	0.0
12	82	18	57	37	64	37	50.5	0.5	0	14.5	0.00	0.0
13	82	18	56	37	60	37	48.5	0	0	16.5	0.00	0.0
14	84	20	58	37	69	40	54.5	4.5	0	10.5	0.00	0.0
15	85	17	61	39	51	36	43.5	0	0	21.5	0.00	0.0
16	87	16	61	40	48	37	42.5	0	0	22.5	0.35	0.0
17	87	22	60	39	46	33	39.5	0	0	25.5	0.10	T
18	87	21	62	39	51	33	42	0	0	23	0.64	T
19	90	22	64	42	42	33	37.5	0	0	27.5	0.07	0.0
20	84	22	63	41	37	33	35	0	0	30	0.61	0.0
21	90	22	63	41	43	33	38	0	0	27	T	0.0
22	91	20	60	39	54	35	44.5	0	0	20.5	0.20	0.0
23	91	22	61	40	49	40	44.5	0	0	20.5	0.31	0.0
24	85	17	62	40	60	42	51	1	0	14	T	0.0
25	85	21	67	43	60	42	51	1	0	14	T	0.0
26	92	25	68	43	57	46	51.5	1.5	0	13.5	0.64	0.0
27	91	22	66	42	66	47	56.5	6.5	0	8.5	0.11	0.0
28	88	25	64	41	51	37	44	0	0	21	0.11	0.0
29	89	25	63	42	44	35	39.5	0	0	25.5	0.06	0.0
30	92	29	66	44	62	42	52	2	0	13	0	0.0

**Temperature**

1981-2010 AVG. HI: 59.5(F)  
 1981-2010 AVG. LOW: 37.8(F)  
 1981-2010 AVG. TEMP.: 48.7(F)  
 April 2011 AVG. HI: 54.8(F)  
 April 2011 AVG. LO: 37.3(F)  
 April 2011 AVG. TEMP.: 46.1 (F)

**Precipitation**

April 2011 TOTAL: 4.41 in.  
 April AVG.: 3.26 in.  
 April 2011 SNOW: T  
 April SNOW AVG: 0.8 in.  
 2011 liquid-eq. YEAR TO DATE: 10.12 in.  
 liquid-eq. YEAR TO DATE AVG.: 8.54 in.  
 2010-11 Seasonal SNOW TO DATE: 48.2 in.  
 Seasonal SNOW TO DATE AVG.: 35.8 in.

**Degree Days**

COOLING: 4/11: 0  
 1/11-Now: 0  
 HEATING: 4/11: 568  
 7/10-Now: 6821.5  
 GROWING: 4/11: 47.5  
 1/11-Now: 48

**Discussion**

April 2011 temperatures were generally below historical (30-year, 1981-2010) averages. The mean temperature of 46.1 degrees was 1.6 degrees below the historical average. The main source of this negative anomaly was daytime temperatures, as the monthly average high temperature was 54.8 degrees, 4.7 degrees below the historical average, whereas the monthly average low temperature of 37.8 degrees was 0.5 degrees below the historical average. This disparity results from the frequent cloudiness during the month. Indeed, at the Chicago Midway 3SW Co-op Station operated by Mr. Frank Wachowski, it was the least sunny April on record since 1928 with only 32 percent of the possible sunshine, a statistic that holds approximately true for DeKalb. The warmest temperatures were recorded on the 4<sup>th</sup> (the date of the first temperature of 70 degrees or higher of the year and since 26 October) , 10<sup>th</sup>, 11<sup>th</sup> (the date of the first (and only so far) temperature of 80 degrees or higher of the year and since 13 October), and 27<sup>th</sup>.

The monthly liquid-equivalent precipitation total of 4.41 in. was 135 percent of the historical average total of 3.26 in. Rainfall was frequent; measureable rainfall was recorded on 18 of 30 days this month, and at least a trace of precipitation was recorded every day between the 16<sup>th</sup> and 29<sup>th</sup>, inclusive. Snowfall was seen this April. A 20-minute midday snow squall occurred on the 1<sup>st</sup>, which resulted in a trace of snowfall being recorded on the 2<sup>nd</sup>; a period of light snow occurred on the afternoon of the 16<sup>th</sup>, which resulted in a trace of snowfall being recorded on the 17<sup>th</sup> and was followed by a period of sleet early on the 18<sup>th</sup> (and trace for that date). Soils have remained moist ("abnormally moist" to "wet" according to NOAA's Climate Prediction Center across northern Illinois as of 23 April: < [http://www.cpc.ncep.noaa.gov/products/analysis\\_monitoring/regional\\_monitoring/cmi.gif](http://www.cpc.ncep.noaa.gov/products/analysis_monitoring/regional_monitoring/cmi.gif)>), which has restricted soil temperatures and kept farmers in the area out of their fields and from planting crops.

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 This summary was prepared by Daniel J. Brouillette, 2 May 2011. Forecast information (updated once daily at approx. 7:30 am): (815) 753-1623.  
 Climate Website: <http://climate.niu.edu>

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

