

MONTHLY CLIMATE SUMMARY, SEPTEMBER 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	100	39	80	59	85	63	74	24	9	0	0.00	0.0
2	101	35	80	58	92	70	81	31	16	0	0.00	0.0
3	99	40	80	58	90	72	81	31	16	0	0.00	0.0
4	100	41	80	57	83	58	70.5	20.5	5.5	0	0.38	0.0
5	99	40	78	57	69	48	58.5	8.5	0	6.5	0.00	0.0
6	100	36	79	57	63	45	54	4	0	11	0.00	0.0
7	101	37	80	58	67	46	56.5	6.5	0	8.5	0.00	0.0
8	99	27	80	56	71	47	59	9	0	6	0.00	0.0
9	96	39	78	56	75	51	63	13	0	2	0.01	0.0
10	96	36	78	56	73	57	65	15	0	0	0.07	0.0
11	94	30	79	55	77	57	67	17	2	0	0.00	0.0
12	96	32	79	55	81	58	69.5	19.5	4.5	0	0.00	0.0
13	98	33	78	55	85	60	72.5	22.5	7.5	0	0.00	0.0
14	100	29	77	54	71	49	60	10	0	5	0.00	0.0
15	101	33	75	52	59	38	48.5	0	0	16.5	0.02	0.0
16	92	30	74	52	59	37	48	0	0	17	0.00	0.0
17	94	33	73	51	56	47	51.5	1.5	0	13.5	0.01	0.0
18	97	30	75	53	68	49	58.5	8.5	0	6.5	0.00	0.0
19	93	32	76	53	63	52	57.5	7.5	0	7.5	0.02	0.0
20	93	28	74	52	70	50	60	10	0	5	0.48	0.0
21	94	32	71	49	76	51	63.5	13.5	0	1.5	0.00	0.0
22	92	29	72	49	69	47	58	8	0	7	0.00	0.0
23	91	30	71	48	63	44	53.5	3.5	0	11.5	0.00	0.0
24	91	30	71	48	60	43	51.5	1.5	0	13.5	0.00	0.0
25	93	25	69	48	61	46	53.5	3.5	0	11.5	T	0.0
26	93	26	70	48	66	48	57	7	0	8	0.59	0.0
27	89	27	72	48	53	50	51.5	1.5	0	13.5	1.90	0.0
28	91	23	70	48	60	50	55	5	0	10	0.26	0.0
29	96	28	69	47	66	47	56.5	6.5	0	8.5	0.01	0.0
30	93	22	71	47	68	46	57	7	0	8	0.07	0.0

Temperature

1981-2010 AVG. HI: 75.3(F)
 1981-2010 AVG. LOW: 52.8(F)
 1981-2010 AVG. TEMP.: 64.1(F)
 Sept. 2011 AVG. HI: 70.0(F)
 Sept. 2011 AVG. LO: 50.9(F)
 Sept. 2011 AVG. TEMP.: 60.4(F)

Precipitation

Sept. 2011 TOTAL: 3.83 in.
 Sept. AVG.: 3.16 in.
 Sept. 2011 SNOW: 0
 Sept. SNOW AVG: 0
 2011 liquid-eq. YEAR TO DATE: 34.77 in.
 liquid-eq. YEAR TO DATE AVG.: 29.98 in.
 2011-12 Seasonal SNOW TO DATE: 0
 Seasonal SNOW TO DATE AVG.: 0

Degree Days

COOLING: 9/11: 60.5
 1/11-Now: 888.5
 HEATING: 9/11: 198
 7/11-Now: 198
 GROWING: 9/11: 316
 1/11-Now: 2652.5

Discussion

September 2011 featured temperatures much below the historical (30-year, 1981-2010) averages. The monthly mean temperature of 60.4 degrees tied with 1902 for eighth lowest on record since 1896. The lowest September monthly mean temperature occurred in 1918, when it was 57.5 degrees. It was cool days that contributed to this strong negative anomaly in the overall mean temperature; in fact, the monthly average high temperature of 70.0 degrees ranked third lowest on record after 1896 and 1924, lowest (68.3 degrees) and second lowest (69.3 degrees), respectively. The first four days of the month had temperatures above the historical averages as did the period between the 12th and 13th. Otherwise, temperatures were consistently below the historical averages. Indeed, early frost was reported in some areas just outside DeKalb on the morning of the 15th.

September featured a liquid-equivalent precipitation total above the historical average. It totaled 3.83 in., some 121 percent of the historical average of 3.16 in. About 72 percent of that total (2.76 in.) was realized between the 26th and 29th in association with a "cut-off" upper-level cyclone that resided over the Great Lakes region for several days.

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

The Climate Summary is supported by the Department of Geography, the College of Liberal Arts and Sciences, and the Department of Operations.

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

