

MONTHLY CLIMATE SUMMARY, SEPTEMBER 2019

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	100	39	80	59	74	58	66	1	0	16	0.47	0
2	101	35	80	58	70	59	64.5	0	0.5	14.5	0	0
3	99	40	80	58	81	60	70.5	5.5	0	20.5	0.13	0
4	100	41	80	57	82	56	69	4	0	19	1.09	0
5	99	40	78	57	67	53	60	0	5	10	0	0
6	100	36	79	57	71	52	61.5	0	3.5	11.5	0	0
7	101	37	80	58	70	54	62	0	3	12	0	0
8	99	27	80	56	77	54	65.5	0.5	0	15.5	0.04	0
9	96	39	78	56	64	59	61.5	0	3.5	11.5	0.18	0
10	96	36	78	56	73	60	66.5	1.5	0	16.5	0.03	0
11	94	30	79	55	87	69	78	13	0	28	0	0
12	96	32	79	55	85	67	76	11	0	26	0	0
13	98	33	78	55	80	64	72	7	0	22	2.98	0
14	100	29	77	54	72	53	62.5	0	2.5	12.5	0	0
15	101	33	75	52	80	53	66.5	1.5	0	16.5	0.82	0
16	92	30	74	52	79	63	71	6	0	21	0.12	0
17	94	33	73	51	80	61	70.5	5.5	0	20.5	0	0
18	97	30	75	53	79	60	69.5	4.5	0	19.5	0	0
19	93	32	76	53	79	60	69.5	4.5	0	19.5	0	0
20	93	28	74	52	78	61	69.5	4.5	0	19.5	0.06	0
21	94	32	71	49	84	67	75.5	10.5	0	25.5	0	0
22	92	29	72	49	74	59	66.5	1.5	0	16.5	1.1	0
23	91	30	71	48	73	55	64	0	1	14	0.65	0
24	91	30	71	48	73	56	64.5	0	0.5	14.5	0.01	0
25	93	25	69	48	80	59	69.5	4.5	0	19.5	T	0
26	93	26	70	48	77	52	64.5	0	0.5	14.5	T	0
27	89	27	72	48	71	52	61.5	0	3.5	11.5	0	0
28	91	23	70	48	67	55	61	0	4	11	1.19	0
29	96	28	69	47	60	54	57	0	8	7	0.67	0
30	93	22	71	47	66	60	63	0	2	13	0.02	0

Temperature

1981-2010 AVG. HI: 75.3 (F)
 1981-2010 AVG. LOW: 52.8 (F)
 1981-2010 AVG. TEMP.: 64.1 (F)
 Sept. 2019 AVG. HI: 75.1 (F)
 Sept. 2019 AVG. LO: 58.2 (F)
 Sept. 2019 AVG. TEMP.: 66.6 (F)

Precipitation

Sept. 2019 TOTAL: 9.56 in.
 Sept. AVG.: 3.16 in.
 Sept. 2019 SNOW: 0
 Sept. SNOW AVG: 0
 2019 liquid-eq. YEAR TO DATE: 34.57 in.
 liquid-eq. YEAR TO DATE AVG.: 29.08 in.
 2019-20 Seasonal SNOW TO DATE: 0
 Seasonal SNOW TO DATE AVG.: 0

Degree Days

COOLING: 9/19: 86.5
 1/19-Now: 747.5
 HEATING: 9/19: 37.5
 7/19-Now: 39.5
 GROWING: 9/19: 499
 1/19-Now: 2839

Discussion

September had a mean temperature of 66.6 °F, which is 2.5 degrees above the historical average of 64.1 °F. The average high temperature of 75.1 °F was just 0.2 degrees above the historical average of 75.3 °F. The average low temperature of 58.2 °F was 5.4 degrees above the historical average of 52.8 °F. The month of September 2018 had the 9th highest mean temperature since 1966. It also had the 3rd highest average low temperatures in the past 53 years. We saw 18 days with above average high temperatures and 22 nights with above average low temperatures.

September's precipitation total for 2019 was 9.56 in, which is 303% of normal. This marks September 2019 as the 2nd wettest September since 1966, and the 4th wettest since 1895 (start of the combined Sycamore/Dekalb climate record. Although September was extremely wet, there were no days with record precipitation. This brings the year to date liquid equivalent total to 34.57 in., which is 5.49 in. above the liquid equivalent year to date average. The wettest day of the month was the 13th, when 2.98 in. of rain fell. Rainfall was evenly distributed throughout the month, with 51% of it falling in the first half.

The total number of growing degree days for the month of September was 499 days. This put the total number of growing degree days since January to 2839 days. There were 86.5 cooling degree days, putting the total since January to 747.5 total cooling degree days. The past month also saw a total of 37.5 heating degree days occur, which brings 2019's total of heating degree days to 39.5.

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This summary was prepared by Luke Henderson, 11 October 2019. 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.

September 2019 Daily Highs and Lows with 1981-2010 Average Highs and Lows

Prepared by Luke Henderson, NIU Weather Director

