

## **MONTHLY CLIMATE SUMMARY, NOVEMBER 2018**

### **NIU WEATHER SERVICE: DE KALB, IL.**

Day	Record	Record	Average		Obs.		Obs. Avg.	GDD	CDD	HDD	Precip. (in)	Snowfall (in)
	HI	LO	HI	LO	HI	LO						
1	82	15	56	38	56	44	50	0	0	15	0	0
2	77	12	54	37	49	34	41.5	0	0	23.5	0	0
3	75	8	52	33	50	34	42	0	0	23	0	0
4	75	8	52	34	47	37	42	0	0	23	0.05	0
5	75	1	51	33	51	41	46	0	0	19	0.38	0
6	74	11	48	31	50	41	45.5	0	0	19.5	0.3	0
7	75	7	49	32	45	33	39	0	0	26	0	0
8	72	6	51	32	37	30	33.5	0	0	31.5	0	0
9	76	8	51	32	35	28	31.5	0	0	33.5	0.14	1.8
10	74	13	51	33	30	15	22.5	0	0	42.5	T	0.1
11	74	8	48	30	28	16	22	0	0	43	0	0
12	72	11	45	29	40	26	33	0	0	32	0	0
13	69	3	47	29	30	16	23	0	0	42	0	0
14	73	2	49	31	30	14	22	0	0	43	0	0
15	70	2	47	32	33	15	24	0	0	41	0	0
16	73	-2	45	31	34	23	28.5	0	0	36.5	0.15	1.1
17	72	-2	45	30	37	30	33.5	0	0	31.5	T	0.3
18	72	5	46	30	31	26	28.5	0	0	36.5	0.04	0.3
19	73	6	47	32	34	17	25.5	0	0	39.5	0	0
20	67	3	48	29	34	21	27.5	0	0	37.5	0	0
21	72	2	44	28	34	24	29	0	0	36	0	0
22	68	0	42	26	35	27	31	0	0	34	0	0
23	67	-2	45	27	41	28	34.5	0	0	30.5	0	0
24	64	-5	44	26	47	33	40	0	0	25	0.13	0
25	64	-6	41	25	44	35	39.5	0	0	25.5	0	0
26	65	-4	44	27	36	22	29	0	0	36	1.15	9.1
27	65	-2	44	29	25	17	21	0	0	44	0	0
28	66	-6	43	27	22	12	17	0	0	48	0.01	0
29	64	-3	41	26	27	11	19	0	0	46	0.05	0.1
30	65	-9	40	27	33	25	29	0	0	36	T	0

#### Temperature

1981-2010 AVG HI: 46.9 °F  
 1981-2010 AVG LOW: 30.1 °F  
 1981-2010 AVG TEMP.: 38.5 °F  
 November 2018 AVG HI: 37.5 °F  
 November 2018 AVG LOW: 25.8 °F  
 November 2018 AVG TEMP: 31.7 °F

#### Precipitation

November 2018 TOTAL: 2.4 in.  
 November AVG: 2.68 in.  
 November 2018 SNOW: 12.8 in.  
 November SNOW AVG.: 1.1 in.  
 2018 Liquid-Eq. YEAR TO DATE: 37.36 in.  
 Liquid-Eq. YEAR TO DATE AVG: 35.51 in.  
 2018-2019 Seasonal SNOW TO DATE: 12.8 in.  
 Seasonal SNOW TO DATE AVG: 1.2 in.

#### Degree Days

COOLING: 11/18: 0  
 1/18-Now: 954  
 HEATING: 11/18: 1000  
 7/18-Now: 1592  
 GROWING: 11/18: 0  
 1/18-Now: 3238

#### Discussion

November's average temperature was 31.7°F, which is 6.8 degrees cooler than the historical average temperature for November. The average high of 37.5 °F was 9.4 degrees cooler than the historical average, and the average minimum temperature of 25.8°F was 4.3 degrees cooler than the historical average. November of 2018 had 5 days with at or above average highs, and 11 days with at or above average lows. No temperature-based records were broken in the month of November 2018.

November's precipitation total for 2018 was 2.4 inches, which was 0.24 inches below average. The total liquid-equivalent year to date is now 37.36 inches, which is 1.85 inches above the year to date average. The highest amount of precipitation occurred on the 26<sup>th</sup>, with 1.15 inches. This past month saw the majority of the precipitation occur in the latter half of the month as 63.75% of the precipitation occurred after the 15<sup>th</sup> of November.

The snowfall total for the month was 12.8 inches. This snowfall total is 11.7 inches above average, and even broke the record for the highest November snowfall total in the past 53 years. Before this, the highest snowfall total, on record, was the 7.5 inches that fell in November of 2015. The seasonal snow to date is now 12.8 inches, and is 11.6 inches above the average seasonal snow to date.

November of 2018 saw no growing degree days (GDDs) or cooling degree days (CDDs). Therefore, the total number of CDDs is still 954, and the total number of GDDs is still 3238. November of 2018 saw a total of 1000 heating degree days (HDDs), putting the total since 7/18 to 1592 HDDs.

As an author's note, the calculations of daily GDDs, CDDs and HDDs were rounded beginning with the May 2017 Summary and that rounding likely impacted monthly totals. This calculation error has changed with this summary.

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This summary was prepared by Nicholas Rodeo, 17 December 2018. 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.**

**November 2018 Daily Highs and Lows with 1981-2010 Average Highs and Lows**  
 Prepared by Nicholas Rodeo, NIU Weather Director

