

# MONTHLY CLIMATE SUMMARY, DECEMBER 2019

## NIU WEATHER SERVICE: DE KALB, IL.

Day	Record		Average		Obs.		Obs. Avg.	CDD	HDD	GDD	Precip. (in)	Snowfall (in)
	HI	LO	HI	LO	Obs. HI	Obs. LO						
1	63	4	38	26	40	34	37	0	28	0	0.14	0
2	64	-5	38	24	37	27	32	0	33	0	T	T
3	66	-14	38	23	37	26	31.5	0	33.5	0	0	0
4	69	-4	36	21	40	26	33	0	32	0	0	0
5	64	-4	35	21	42	22	32	0	33	0	0	0
6	65	-7	35	18	45	24	34.5	0	30.5	0	0	0
7	66	-9	34	19	37	24	30.5	0	34.5	0	0	0
8	63	-8	34	21	37	24	30.5	0	34.5	0	0	0
9	59	-18	34	20	43	31	37	0	28	0	T	0
10	56	-18	35	19	45	11	28	0	37	0	T	T
11	60	-15	34	19	21	10	15.5	0	49.5	0	0.03	T
12	55	-10	33	17	23	13	18	0	47	0	T	T
13	60	-19	32	18	37	24	30.5	0	34.5	0	0	0
14	60	-12	33	21	45	22	33.5	0	31.5	0	0	0
15	59	-14	35	20	30	16	23	0	42	0	0	0
16	58	-17	34	19	23	17	20	0	45	0	0.06	0.4
17	57	-13	31	18	26	18	22	0	43	0	0	0
18	56	-12	29	15	26	9	17.5	0	47.5	0	0	0
19	55	-17	29	15	18	7	12.5	0	52.5	0	0	0
20	57	-19	30	15	37	16	26.5	0	38.5	0	0	0
21	57	-18	31	16	40	22	31	0	34	0	0	0
22	55	-12	31	16	45	25	35	0	30	0	0	0
23	58	-17	31	16	51	21	36	0	29	0	0	0
24	57	-22	29	14	48	30	39	0	26	0	T	T
25	60	-13	27	12	53	30	41.5	0	23.5	0	0	0
26	56	-22	28	12	56	34	45	0	20	0	0	0
27	59	-20	30	17	59	31	45	0	20	0	0	0
28	64	-24	33	18	37	27	32	0	33	0	T	0
29	63	-12	32	17	55	32	43.5	0	21.5	0	1.21	0
30	59	-13	31	14	54	31	42.5	0	22.5	0	0.24	T
31	57	-14	33	18	32	22	27	0	38	0	0.08	1.3

**Temperature**

1981-2010 AVG HI: 36.5 °F  
 1981-2010 AVG LOW: 17.9 °F  
 1981-2010 AVG TEMP.: 26.8 °F  
 December 2019 AVG HI: 39.3 °F  
 December 2019 AVG LOW: 22.8 °F  
 December 2019 AVG TEMP.: 31.1 °F

**Precipitation**

December 2019 TOTAL: 1.76 in.  
 December AVG: 2.17 in.  
 December 2019 SNOW: 1.7 in.  
 December SNOW AVG.: 10.0 in.  
 2019 Liquid-Eq. YEAR TO DATE: 45.81 in.  
 Liquid-Eq. YEAR TO DATE AVG: 36.79 in.  
 2019-2020 Seasonal SNOW TO DATE: 9.6 in.  
 Seasonal SNOW TO DATE AVG: 11.2 in.

**Degree Days**

COOLING: 12/19: 0  
 1/19-Now: 766.5  
 HEATING: 12/19: 1052.5  
 7/19-Now: 2077  
 GROWING: 12/19: 0  
 1/19-Now: 2961.5

**Discussion**

December of 2019 was highlighted by abnormally warm temperatures, with the average temperature being 31.1 degrees, 4.3 degrees above the historical normal temperature. December's average high of 39.3 degrees was 2.8 degrees warmer than the historical average high, with the average minimum temperature of 22.8 degrees being warmer than the historical average by 4.9 degrees. December had 21 days with at or above average highs and 24 days with at or above average lows. December had its highest temperature on the 27<sup>th</sup> at 58, which broke the old record of 57 degrees. The previous day, the 26<sup>th</sup>, tied the record of 56 degrees. On Christmas, the temperature reached 53 degrees, which was the 2<sup>nd</sup> warmest Christmas since records began in 1966.

December's precipitation total for 2019 was 1.76 in., which was 0.41 in. below the average. The 2019 liquid-equivalent year to date ends at 45.81 in. – which is 9.05 in. above the average liquid-equivalent year to date of 36.79 in. This marks 2019 as the 4<sup>th</sup> wettest year on record for Dekalb/Sycamore since such records began in 1895. The total snowfall for the month of December 2019 was 1.7 inches, which is 8.3 inches below average for the month of December. This puts the 2019-2020 seasonal snow to date at 9.6 in. This is 1.6 in. below the seasonal snow to date average of 11.2 in. The second half of the month saw the most precipitation occur, as 90% of the liquid-equivalent precipitation fell in the last 15 days, with the wettest day being the 29<sup>th</sup>, when 1.21 in. fell.

December of 2019 saw no cooling degree days (CDDs) or growing degree days (GDDs). Therefore, their respective totals from 1/19 to now are 766.5 and 2961.5 respectively. There were 1052.5 heating degree days (HDDs) for the month of December 2019, putting the total from 7/19 to now at 2077 HDDs.

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This summary was prepared by Luke Henderson, 13 January 2020. Forecast information (updated once daily at approx. 7:30 am): (815) 753-1623.

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

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## December 2019 Daily Highs and Lows with 1981-2010 Average Highs and Lows

Prepared by Luke Henderson, NIU Weather Director

