MONTHLY CLIMATE SUMMARY, DECEMBER 2018 NIU WEATHER SERVICE: DE KALB, IL.

	Record	Record	Average	Average			Obs.				Precip.	Snowfall	
Day	HI	LO	HI	LO	Obs. HI	Obs. LO	Avg.	CDD	HDD	GDD	(in)	(in)	
1	63	4	38	26	36	25	30.5	0	34.5	0	0	0	
2	64	-5	38	24	42	35	38.5	0	26.5	0	0.75	0	
3	66	-14	38	23	40	29	34.5	0	30.5	0	0.11	0.5	
4	69	-4	36	21	31	26	28.5	0	36.5	0	0.01	Т	
5	64	-4	35	21	29	22	25.5	0	39.5	0	0.01	0	
6	65	-7	35	18	32	22	27	0	38	0	т	Т	
7	66	-9	34	19	28	12	20	0	45	0	0	0	
8	63	-8	34	21	23	12	17.5	0	47.5	0	Т	Т	
9	59	-18	34	20	26	14	20	0	45	0	0	0	
10	56	-18	35	19	29	11	20	0	45	0	0	0	
11	60	-15	34	19	34	11	22.5	0	42.5	0	0	0	
12	55	-10	33	17	37	24	30.5	0	34.5	0	Т	Т	
13	60	-19	32	18	36	22	29	0	36	0	0	0	
14	60	-12	33	21	41	24	32.5	0	32.5	0	0.1	0	
15	59	-14	35	20	38	25	31.5	0	33.5	0	Т	Т	
16	58	-17	34	19	46	25	35.5	0	29.5	0	0	0	
17	57	-13	31	18	45	27	36	<u>0</u>	29	0	0	0	
18	56	-12	29	15	40	24	32	0	33	0	0	0	
19	55	-17	29	15	42	26	34	0	31	0	0	0	
20	57	-19	30	15	46	33	39.5	0	25.5	0	0.03	0	
21	57	-18	31	16	42	32	37	0	28	0	0.06	Т	
22	55	-12	31	16	32	26	29	0	36	0	0	0	
23	58	-17	31	16	31	26	28.5	0	36.5	0	0	0	
24	57	-22	29	14	38	20	29	0	36	0	0	0	
25	60	-13	27	12	33	19	26	0	39	0	0	0	
26	56	-22	28	12	44	26	35	0	30	0	0	0	
27	55	-20	30	17	43	27	35	0	30	0	0.06	0	
28	64	-24	33	18	51	28	39.5	0	25.5	0	0.57	Т	
29	63	-12	32	17	33	25	29	0	36	0	0.06	0.5	
30	59	-13	31	14	26	16	21	0	44	0	0.04	0.3	
31	57	-14	33	18	33	9	21	0	44	0	0.01	Т	
	<u>Temperature</u>				Precipitation				<u>Degree Days</u>				
	1981-2010 AVG HI: 36.5 °F 1981-2010 AVG LOW: 17.9 °F				December 2018 TOTAL: 1.81 in. December AVG: 2.17 in.				COOLING:		12/18: 0 1/18-Now: 954		
	1981-2010 AVG TEMP.: 26.8 °F				December 2018 SNOW: 1.3 in.				HEATING:		12/18: 1100		
	December 2018 AVG HI: 36.4 °F				December SNOW AVG.: 10.0 in.				~~ ~ ~ ~ ~ ~ ~ ~		7/18-Now: 2692		
	December 20				2018 Liquid-Eq. YEAR TO DATE: 39.17 in.				ROWING:	12/18			
	December 20	18 AVG TE	MP: 29.5 °F	2018-20	Liquid-Eq. YEAR TO DATE AVG: 36.79 in. 2018-2019 Seasonal SNOW TO DATE: 14.1in. Seasonal SNOW TO DATE AVG: 11.2 in.				1/18-Now: 3238				

Discussion

The average temperature of 2018 was 29.5 °F, which is 2.7 degrees warmer than the historical average temperature. December's average high of 36.4 degrees was 0.1 degrees cooler than the historical average high, with the average minimum temperature of 22.7 being warmer than the historical average by 4.8 degrees. December had 22 days with at or above average highs and 25 days with at or above average lows. December had its highest temperature on the 28th at 51 degrees which was 27 degrees above the average for the day. December of 2018 did not see any days with record-breaking temperatures

December's precipitation total for 2018 was 1.81 in., which was 0.36 in. below the average. The 2018 liquid-equivalent year to date is now 39.17 in. – which is 2.38 in. above the average liquid-equivalent year to date of 36.79 in. The total snowfall for the month of December 2018 was 1.3 inches, which is 8.7 inches below average for the month of December. This puts the 2018-2019 seasonal snow to date at 14.1 in. This is 2.9 in. above the seasonal snow to date average of 11.2 in. The first half of the month saw the most precipitation occur, as 54% of the liquid-equivalent precipitation fell in the first 15 days.

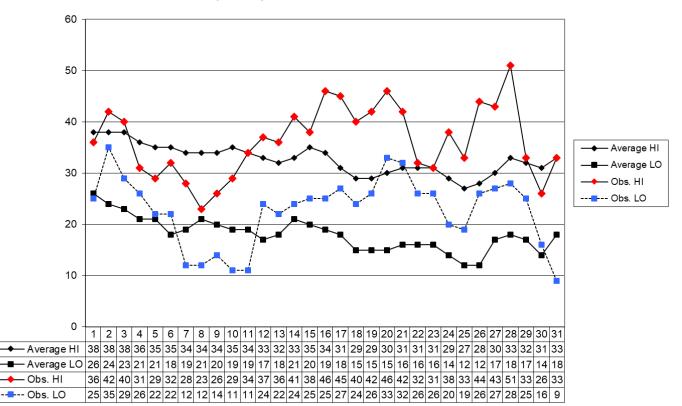
December of 2018 saw no cooling degree days (CDDs) or growing degree days (GDDs). Therefore, their respective totals from 1/18 to now are 954 and 3238 respectively. There were 1100 heating degree days (HDDs) for the month of December 2018, putting the total from 7/18 to now at 2692 HDDs.

As an author's note: the calculations of daily GDDs, CDDs and HDDs were rounded beginning with the May 2017 summary and continued as such until the October of 2018 Summary. This rounding likely impacted monthly totals in this time period. This calculation error has changed with the November 2018 summary released last month.

This summary was prepared by Nick Rodeo, 23 January 2019. Forecast information (updated once daily at approx. 7:30 am): (815) 753-1623. *Climate Website: http://climate.niu.edu*

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December 2018 Daily Highs and Lows with 1981-2010 Average Highs and Lows Prepared by Nick Rodeo, NIU Weather Director

Day

Temperature (°F)