MONTHLY CLIMATE SUMMARY, DECEMBER 2013 NIU WEATHER SERVICE: DE KALB, ILL.

Day 1 2 3 4 5 6 7 8 9 10 11 23 4 5 6 7 8 9 10 11 23 14 15 16 17 18 9 20 21 22 3 24 5 26 27 28	$\begin{array}{c} \text{Record} \\ \text{HI} \\ 63 \\ 64 \\ 65 \\ 66 \\ 63 \\ 59 \\ 56 \\ 60 \\ 55 \\ 60 \\ 58 \\ 57 \\ 56 \\ 57 \\ 55 \\ 57 \\ 55 \\ 58 \\ 55 \\ 60 \\ 56 \\ 55 \\ 61 \\ 64 \\ \end{array}$	Record LO 4 -5 -14 -4 -7 -9 -8 -18 -15 -10 -19 -12 -14 -17 -13 -12 -14 -17 -13 -12 -17 -19 -18 -12 -17 -19 -18 -12 -17 -12 -14 -22 -13 -22 -24	Average HI 38 38 36 35 35 34 34 34 34 33 32 33 35 34 31 29 29 30 31 31 31 29 27 28 30 33	Average LO 26 24 23 21 21 18 19 21 20 19 17 18 21 20 19 17 18 21 20 19 17 18 15 15 15 16 16 16 16 16 14 12 17 18	Obs. HI 48 42 40 46 52 24 16 17 22 16 22 19 33 17 29 28 19 33 1 37 32 29 8 19 24 33 31 37 32 29 8 19 24 33 31 37 32 32 38	Obs. LO 24 30 33 36 24 12 4 4 4 4 7 -10* 1 12 8 6 7 10 24 25 8 -10 -9 10 11 18	Obs. Avg. 36 36,5 41 38 18 10,5 18 4.5 14,5 4.5 9 20,5 18 9 13 21,5 28,5 28,5 18,5 -1 5 17 21 28	GDD 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	$\begin{array}{c} \text{HDD} \\ 29 \\ 28 \\ 24 \\ 27 \\ 47 \\ 55 \\ 54 \\ 5 \\ 55 \\ 57 \\ 50 \\ 56 \\ 56 \\ 44 \\ 56 \\ 52 \\ 43 \\ 56 \\ 53 \\ 56 \\ 53 \\ 56 \\ 53 \\ 56 \\ 53 \\ 56 \\ 56$	CDD 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Precip. (in) 0 0.01 0.02 0.03 0 0 0.18 T 0.2 T 0 0.19 T T 0.04 T 0 0.23 0.06 0.34 0.04 T T 0.03 T 0 0.03 T 0.03	Snowfall (in) 0 0 0 0 0 0 0 2.7 T 2.4 0.2 0 1.2 0.2 0 1.2 0.2 0 1.2 0.3 0.9 0.5 0 0 0 0.5 T 0.1 0.5 T 0.1 0.5 T 0
29	64 63 59	-24 -12 -13	33 32 31	17	41	29	28 35 18	0	37 30 47	0	0 0 T	0 0 T
30 31 *Tied	59 57 I record lov	-14	33	14 18	41 5	-5 -6	-0.5	0 0	47 65.5	0	0.04	0.7
<u>Temperature</u> 1981-2010 AVG. HI: 35.6(F) 1981-2010 AVG. LOW: 17.9(F) 1981-2010 AVG. TEMP.: 25.3(F) December 2013 AVG. HI: 28.1(F) December 2013 AVG. LO: 11.2(F) December 2013 AVG. TEMP.: 19.6(F)				Precipitation December 2013 TOTAL: 1.41 in. December AVG.; 2.17 in. December 2013 SNOW: 11.1 in. December SNOW AVG: 10.0 in. 2013 liquid-eq. YEAR TO DATE: 41.28 in. liquid-eq. YEAR TO DATE AVG.; 36.79 in. 2013-14 Seasonal SNOW TO DATE: 12.4 in. Seasonal SNOW TO DATE AVG.; 11.2 in.				79 in. 2.4 in.	<u>Degree Days</u> COOLING: HEATING: GROWING:		12/13: 0 1/13-Now: 729.5 12/13: 1406.5 7/13-Now: 2875 12/13: 0 1/13-Now: 2833	

Discussion

December's mean temperature of 19.6°F was 5.7 degrees cooler than the historical mean, with an average high and low also at least five degrees below average. December's highest temp was on 5th at 52°F, the lowest was -10°F set on both the 12th and 24th. This ties the record low for Dec. 12th. December highs and lows were overall below normal, with 14 days of highs and 8 days of lows above average. Of the days below normal, twelve highs and thirteen lows were over 10°F below their daily historical mean. Three of these highs and five lows were over 20 degrees below daily average. Liquid Equivalent precipitation total for the month of December was 1.41 in. which is 0.76 in. less than historical mean. Total snowfall, on the other hand, was 1.1 inches above average at 11.1". The 2013 year's liquid equivalent precipitation stands at 41.28 inches, just about 4.5" above average. The '13-'14 seasonal snow is 12.4" which is just over an inch above the historical mean. There was also a large accumulation of Heating Degree Days, 1405.5, this month due to the below average temperatures.

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Richard Medlicott—Weather Director

This summary was prepared by Richard Medlicott, 3 January 2014. Forecast information (updated once daily at approx. 7:30 am): (847) 848-4082.

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.

Prepared by Richard Medlicott, NIU Weather Director 60 Average HI Average 50 LO Obs. HI ---- Obs. LO 40 30 Temperature (°F) 20 10 0 -10 -20 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 2 3 1 4 5 6 7 8 38 38 38 36 35 35 34 34 34 35 34 33 32 33 35 34 31 29 29 30 31 31 31 29 27 28 30 33 32 31 33 Average HI Average LO 26 24 23 21 21 18 19 21 20 19 19 17 18 21 20 19 18 15 15 15 16 16 16 14 12 12 17 18 17 14 18 48 42 40 46 52 24 16 17 22 16 22 19 17 29 28 12 19 33 31 37 32 32 29 8 19 24 31 38 41 Obs. HI 41 5 ---- Obs. LO 24 30 33 36 24 12 4 7 10 1 12 8 6 7 10 12 24 25 25 8 -10 -9 10 11 18 29 -5 -6 4 14 -7 Day

