# MONTHLY CLIMATE SUMMARY, DECEMBER 2016 NIU WEATHER SERVICE: DE KALB, IL. 

|  | Record | Record | Average | Average | Obs. | Obs. | Obs. |  |  |  | Precip. | Snowfall |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Day | HI | LO | HI | LO | HI | LO | AVG | GDD | HDD | CDD | (in) | (in) |
| 1 | 63 | 4 | 38 | 26 | 36 | 30 | 33 | 0 | 32 | 0 | T | 0.0 |
| 2 | 64 | -5 | 38 | 24 | 38 | 34 | 36 | 0 | 29 | 0 | T | 0.0 |
| 3 | 66 | -14 | 38 | 23 | 37 | 30 | 33.5 | 0 | 31.5 | 0 | T | 0.0 |
| 4 | 69 | -4 | 36 | 21 | 36 | 29 | 32.5 | 0 | 32.5 | 0 | T | T |
| 5 | 64 | -4 | 35 | 21 | 32 | 29 | 30.5 | 0 | 34.5 | 0 | 0.48 | 8.5 |
| 6 | 65 | -7 | 35 | 18 | 32 | 29 | 30.5 | 0 | 34.5 | 0 | 0.0 | 0.0 |
| 7 | 66 | -9 | 34 | 19 | 34 | 21 | 27.5 | 0 | 37.5 | 0 | 0.0 | 0.0 |
| 8 | 63 | -8 | 34 | 21 | 25 | 14 | 19.5 | 0 | 45.5 | 0 | T | T |
| 9 | 59 | -18 | 34 | 20 | 21 | 14 | 17.5 | 0 | 47.5 | 0 | T | T |
| 10 | 56 | -18 | 35 | 19 | 24 | 13 | 18.5 | 0 | 46.5 | 0 | T | T |
| 11 | 60 | -15 | 34 | 19 | 24 | 15 | 19.5 | 0 | 45.5 | 0 | 0.12 | 2.0 |
| 12 | 55 | -10 | 33 | 17 | 31 | 18 | 24.5 | 0 | 40.5 | 0 | 0.28 | 3.0 |
| 13 | 60 | -19 | 32 | 18 | 21 | 7 | 14 | 0 | 51 | 0 | 0.0 | 0.0 |
| 14 | 60 | -12 | 33 | 21 | 12 | -2 | 5 | 0 | 60 | 0 | 0.0 | 0.0 |
| 15 | 59 | -14 | 35 | 20 | 18 | -4 | 7 | 0 | 58 | 0 | 0.0 | 0.0 |
| 16 | 58 | -17 | 34 | 19 | 11 | -5 | 3 | 0 | 62 | 0 | 0.0 | 0.0 |
| 17 | 57 | -13 | 31 | 18 | 19 | 11 | 15 | 0 | 50 | 0 | 0.06 | 0.5 |
| 18 | 56 | -12 | 29 | 15 | 18 | 0 | 9 | 0 | 56 | 0 | 0.15 | 3.0 |
| 19 | 55 | -17 | 29 | 15 | 0 | -14 | -7 | 0 | 72 | 0 | 0.0 | 0.0 |
| 20 | 57 | -19 | 30 | 15 | 16 | -13 | 1.5 | 0 | 63.5 | 0 | 0.0 | 0.0 |
| 21 | 57 | -18 | 31 | 16 | 26 | 16 | 21 | 0 | 44 | 0 | 0.0 | 0.0 |
| 22 | 55 | -12 | 31 | 16 | 35 | 20 | 27.5 | 0 | 37.5 | 0 | 0.0 | 0.0 |
| 23 | 58 | -17 | 31 | 16 | 33 | 21 | 27 | 0 | 38 | 0 | 0.0 | 0.0 |
| 24 | 57 | -22 | 29 | 14 | 34 | 27 | 30.5 | 0 | 34.5 | 0 | 0.1 | T |
| 25 | 60 | -13 | 27 | 12 | 36 | 30 | 33 | 0 | 32 | 0 | T | T |
| 26 | 56 | -22 | 28 | 12 | 44 | 31 | 37.5 | 0 | 27.5 | 0 | 0.25 | 0.0 |
| 27 | 55 | -20 | 30 | 17 | 46 | 22 | 34 | 0 | 31 | 0 | 0.0 | 0.0 |
| 28 | 64 | -24 | 33 | 18 | 29 | 21 | 25 | 0 | 40 | 0 | 0.0 | 0.0 |
| 29 | 63 | -12 | 32 | 17 | 40 | 23 | 31.5 | 0 | 33.5 | 0 | 0.0 | 0.0 |
| 30 | 59 | -13 | 31 | 14 | 33 | 21 | 27 | 0 | 38 | 0 | T | T |
| 31 | 57 | -14 | 33 | 18 | 36 | 21 | 28.5 | 0 | 36.5 | 0 | 0.0 | 0.0 |

## Temperature <br> 1981-2010 AVG HI: $36.5^{\circ} \mathrm{F}$ 1981-2010 AVG LOW: $17.9^{\circ} \mathrm{F}$ 1981-2010 AVG TEMP.: $26.8^{\circ} \mathrm{F}$ December 2016 AVG HI: $28.3{ }^{\circ} \mathrm{F}$ December 2016 AVG LOW: $16.4^{\circ} \mathrm{F}$ December 2016 AVG TEMP: $22.4^{\circ} \mathrm{F}$

| Degree Davs |  |
| :--- | :--- |
| COOLING: | 12/16: 0 |
|  | 1/16-Now: 984.5 |
| HEATING: | 12/16: 1322 |
|  | 7/16-Now: 2240.5 |
| GROWING: | 12/16: 0 |
|  |  |
|  |  |
|  |  |

12/16: 1322

1/16-Now: 3419

## Precipitation

December 2016 TOTAL: 1.44 in.
December AVG: 2.17 in.
December 2016 SNOW: 17.0 in
December SNOW AVG.: 10.0 in . 2016 Liquid-Eq. YEAR TO DATE: 38.49 in. Liquid-Eq. YEAR TO DATE AVG: 36.79 in. 2016-2017 Seasonal SNOW TO DATE: 17.0 in. Seasonal SNOW TO DATE AVG: 11.2 in.

## Discussion

December's average temperature was $22.4^{\circ} \mathrm{F}$, which is 4.4 degrees cooler than the historical average temperature. December's average high of 28.3 degrees was 8.2 degrees cooler than the historical average high, with the average minimum temperature being cooler than the historical average by 1.5 degrees. December had 9 days with above average highs and 18 days with above average lows. December had its highest temperature on the $27^{\text {th }}$ at 46 degrees. This was 16 degrees above the average for the day. Also, December had 30 days where low temperatures were at the freezing point or below freezing, with 6 days with low temperatures at or below 0 degrees. December did not see any record-breaking temperature days.

December's precipitation total for 2016 was 1.44 in ., which was 0.73 in . below the average. The 2016 liquid-equivalent year to date now is 38.49 in . The total for 2016 is nearly two inches above the year to date average of 36.79 in . Sixty-one percent of the precipitation fell within the first twelve days of the month. The total snowfall for December was 17.0 in., which was 7.0 in. above average. The largest snowfall occurred on December $5^{\text {th }}$ with 8.5 in . of snow. This accounted for fifty percent of the monthly snowfall total.

[^0]December 2016 Daily Highs and Lows with 1981-2010 Average Highs and Lows Prepared by Dan O'Sullivan Jr, NIU Weather Director


Day


[^0]:    Sarah Black, Dr. David Changnon, Emma Falk, Lauren Haas, Matthew Mendez, Yesenia Nevarez, Daniel O’Sullivan Jr, Andrew Pearson, Michael Pejkovich, Marc Quatrini, Dominique Watson - Cooperative Observers;
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    This summary was prepared by Daniel O'Sullivan Jr, 3 January 2017. Forecast information (updated once daily at approx. 7:30 am): (815) 753-1623.
    Climate Website: http://climate.niu.edu
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