## MONTHLY CLIMATE SUMMARY, AUGUST 2010 NIU WEATHER SERVICE: DE KALB, ILL.

| Day | Record | Record | Average HI | Average LO | Obs. HI | Obs. LO | Obs. <br> Avg. | CDD | HDD | GDD | Precip. <br> (in) | Snowfall <br> (in) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | 98 | 42 | 83 | 61 | 76 | 63 | 69.5 | 4.5 | 0 | 19.5 | 0.02 | 0.0 |
| 2 | 98 | 44 | 82 | 62 | 84 | 64 | 74 | 9 | 0 | 24 | 0 | 0.0 |
| 3 | 100 | 42 | 83 | 62 | 83 | 66 | 74.5 | 9.5 | 0 | 24.5 | 1.12 | 0.0 |
| 4 | 99 | 44 | 84 | 62 | 86 | 69 | 77.5 | 12.5 | 0 | 27.5 | 0.54 | 0.0 |
| 5 | 100 | 43 | 82 | 60 | 81 | 68 | 74.5 | 9.5 | 0 | 24.5 | 0.45 | 0.0 |
| 6 | 102 | 44 | 81 | 61 | 81 | 61 | 71 | 6 | 0 | 21 | 0 | 0.0 |
| 7 | 100 | 46 | 81 | 61 | 80 | 62 | 71 | 6 | 0 | 21 | 0 | 0.0 |
| 8 | 103 | 43 | 83 | 62 | 84 | 65 | 74.5 | 9.5 | 0 | 24.5 | 0 | 0.0 |
| 9 | 102 | 44 | 83 | 61 | 87 | 67 | 77 | 12 | 0 | 27 | 0.17 | 0.0 |
| 10 | 98 | 47 | 82 | 61 | 88 | 71 | 79.5 | 14.5 | 0 | 29.5 | T | 0.0 |
| 11 | 97 | 45 | 82 | 60 | 88 | 71 | 79.5 | 14.5 | 0 | 29.5 | 0.01 | 0.0 |
| 12 | 104 | 45 | 81 | 59 | 88 | 73 | 80.5 | 15.5 | 0 | 30.5 | 0 | 0.0 |
| 13 | 98 | 47 | 82 | 62 | 91 | 71 | 81 | 16 | 0 | 31 | 0 | 0.0 |
| 14 | 99 | 43 | 82 | 61 | 90 | 70 | 80 | 15 | 0 | 30 | 0.44 | 0.0 |
| 15 | 97 | 44 | 82 | 61 | 87 | 71 | 79 | 14 | 0 | 29 | 0 | 0.0 |
| 16 | 99 | 42 | 82 | 60 | 82 | 59 | 70.5 | 5.5 | 0 | 20.5 | 0 | 0.0 |
| 17 | 103 | 44 | 83 | 61 | 80 | 60 | 70 | 5 | 0 | 20 | 0 | 0.0 |
| 18 | 102 | 43 | 83 | 60 | 72 | 56 | 64 | 0 | 1 | 14 | 0.09 | 0.0 |
| 19 | 100 | 45 | 82 | 61 | 81 | 61 | 71 | 6 | 0 | 21 | 0 | 0.0 |
| 20 | 100 | 40 | 82 | 61 | 86 | 65 | 75.5 | 10.5 | 0 | 25.5 | 0 | 0.0 |
| 21 | 100 | 42 | 82 | 59 | 90 | 68 | 79 | 14 | 0 | 29 | T | 0.0 |
| 22 | 99 | 41 | 82 | 61 | 84 | 66 | 75 | 10 | 0 | 25 | 0 | 0.0 |
| 23 | 99 | 43 | 81 | 60 | 83 | 63 | 73 | 8 | 0 | 23 | 0 | 0.0 |
| 24 | 100 | 40 | 81 | 60 | 82 | 61 | 71.5 | 6.5 | 0 | 21.5 | 0 | 0.0 |
| 25 | 95 | 41 | 81 | 59 | 83 | 56 | 69.5 | 4.5 | 0 | 19.5 | 0 | 0.0 |
| 26 | 97 | 42 | 82 | 62 | 77 | 53 | 65 | 0 | 0 | 15 | 0 | 0.0 |
| 27 | 97 | 40 | 83 | 63 | 78 | 54 | 66 | 1 | 0 | 16 | 0 | 0.0 |
| 28 | 99 | 39 | 83 | 62 | 84 | 58 | 71 | 6 | 0 | 21 | 0 | 0.0 |
| 29 | 96 | 38 | 81 | 60 | 87 | 62 | 74.5 | 9.5 | 0 | 24.5 | 0 | 0.0 |
| 30 | 98 | 36 | 81 | 60 | 92 | 67 | 79.5 | 14.5 | 0 | 29.5 | 0 | 0.0 |
| 31 | 100 | 35 | 81 | 60 | 86 | 67 | 76.5 | 11.5 | 0 | 26.5 | 0.12 | 0.0 |

[^0]August 2010 AVG. TEMP: 74.0 (F)

> Degree Days
> COOLING: 8/10: 280.5
> 1/10-Now: 877.5
> HEATING: 8/10: 1
> 7/10-Now: 1
> GROWING: 8/10: 744.5

1/10-Now: 2717

## Discussion

## Precipitation

August 2010 TOTAL: 2.96 in.
August AVG: 4.45 in.
August 2010 SNOW: 0.0 in.
2010 liquid-eq. YEAR TO DATE: 29.23 in.
liquid-eq. YEAR TO DATE AVG: 26.33 in .
2010-11 Seasonal SNOW TO DATE: 0.0 in .
Seasonal SNOW TO DATE AVG: 0.0 in.

Snowfall
(in)
0.0
0.0
0.0
0.0 0.0

August 2010 featured temperatures well above the historical (30-year, 1971-2000) averages. The mean temperature of 74.0 degrees was 2.7 degrees above the historical average and tied with 1938 as the $16^{\text {th }}$ warmest since 1896. While the monthly average high temperature of 83.9 degrees was above historical average (by 1.9 degrees), it was, like during most of the summer due to high humidity, warm nighttime temperatures that contributed particularly to the positive anomaly in the mean temperature. At 3.4 degrees above the historical average, the monthly average low temperature of 64.1 degrees ranked eighth greatest on record since 1896 . The most torrid weather occurred between the $10^{\text {th }}$ and the $15^{\text {th }}$, when daytime highs were in the upper 80 's and lower 90 's and nighttime lows in the lower to middle 70 's.

Monthly precipitation totaled 2.96 in . and was only two-thirds of the historical average of 4.45 in . Seventy-two percent of the rainfall recorded during the month fell during the first five days, which suggests that precipitation lacked even distribution temporally. Indeed, no measurable precipitation was recorded between the $18^{\text {th }}$ and the $30^{\text {th }}$ until the $31^{\text {st }}$ (from a brief shower the afternoon before). The relative dryness of August compared to the previous three months allowed NOAA Climate Prediction Centre's Crop Moisture Index to ameliorate to "slightly dry/favorably moist" as of 28 August.

Summer 2010 had a mean temperature of 73.4 degrees, which was 1.8 degrees above the historical average and ranked $15^{\text {th }}$ warmest on record since 1896 . Anomalously high low temperatures, on average 63.6 degrees, contributed to the high mean temperature and ranked fourth warmest on record since 1896. Precipitation was 124 percent of the historical average and ranked $16^{\text {th }}$ greatest on record since 1896. So far this year, there have been 13 days recorded for which the high temperature was 90 degrees or greater and 13 days recorded for which the low temperature was 70 degrees or greater. Interestingly, the highest temperature recorded so far this year was in climatological spring (March-April-May) and was 93 degrees on 25 May.

[^1]August 2010 Daily Highs and Lows with 1971-2000 Average Highs and Lows Prepared by Daniel J. Brouillette, NIU Co-Weather Dir.



[^0]:    Temperature
    1971-2000 AVG. HI: 82.0(F)
    1971-2000 AVG. LOW: 60.7(F)
    1971-2000 AVG. TEMP: 71.4(F)
    August 2010 AVG. HI: 83.9(F)
    August 2010 AVG. LO: 64.1(F)

[^1]:    Phil Jagielo, Tyler McDowall, Robert Niesen, Laura Schutte-Cooperative Observers; Daniel J. Brouillette and Alecia Osborne-Co-Weather Directors.
    This summary was prepared by Daniel J. Brouillette, 31 August 2010. 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.

