



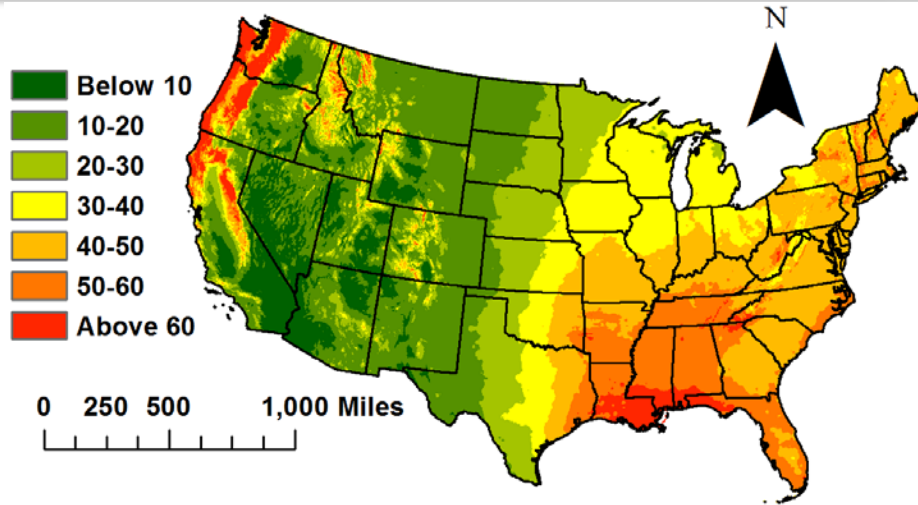
A vision for a more resilient Iowa

The Iowa Watershed Approach

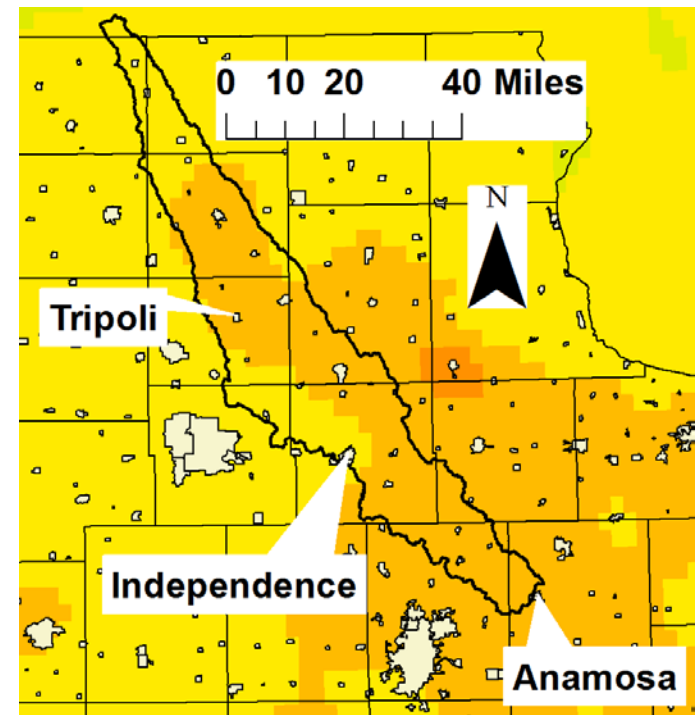
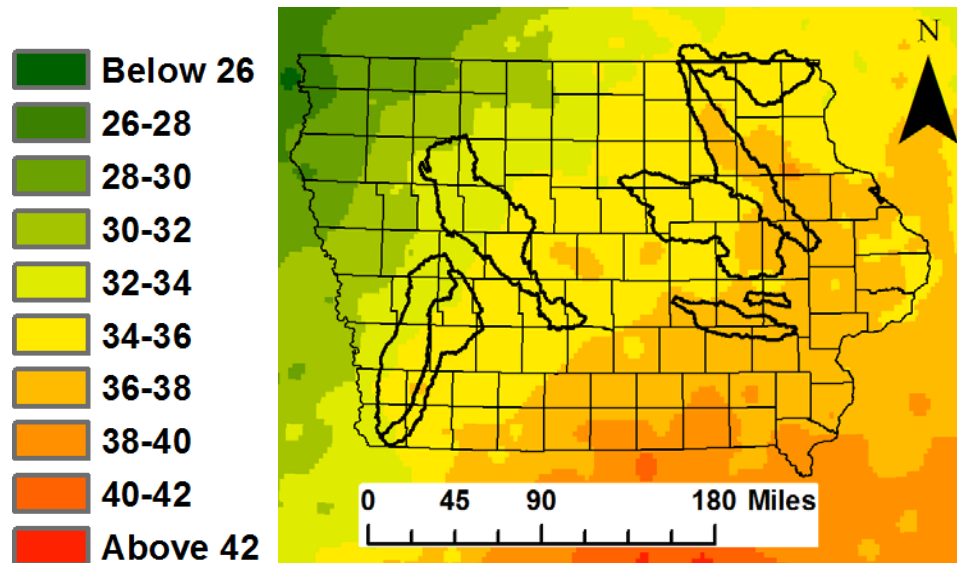
Antonio Arenas

Assistant Research Engineer
antonio-arenasamado@uiowa.edu

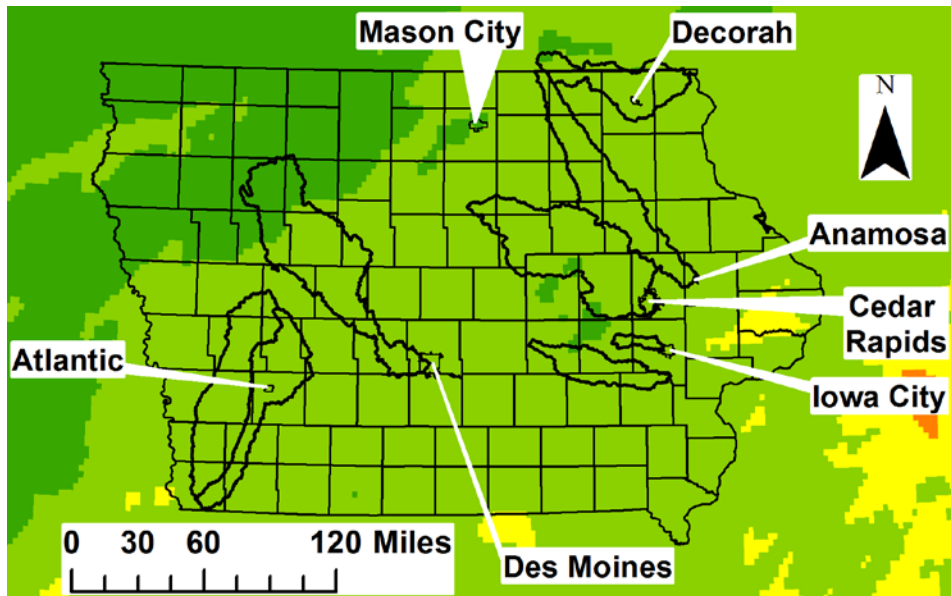
The Iowa Watershed Approach



Average annual precipitation. Estimates are based on the 30-year annual average (1981-2010).



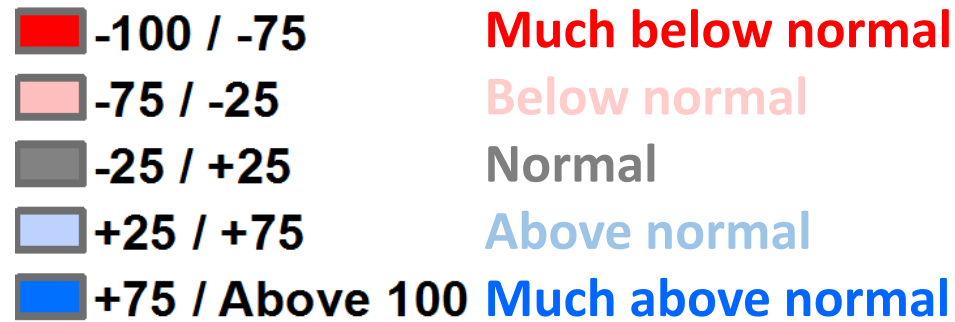
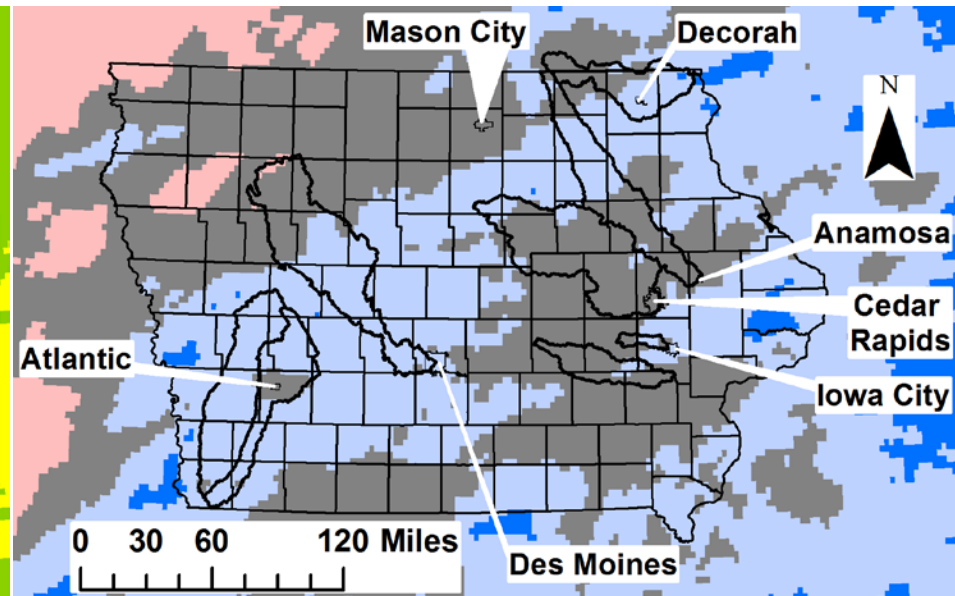
Precipitation (in)



March 2017



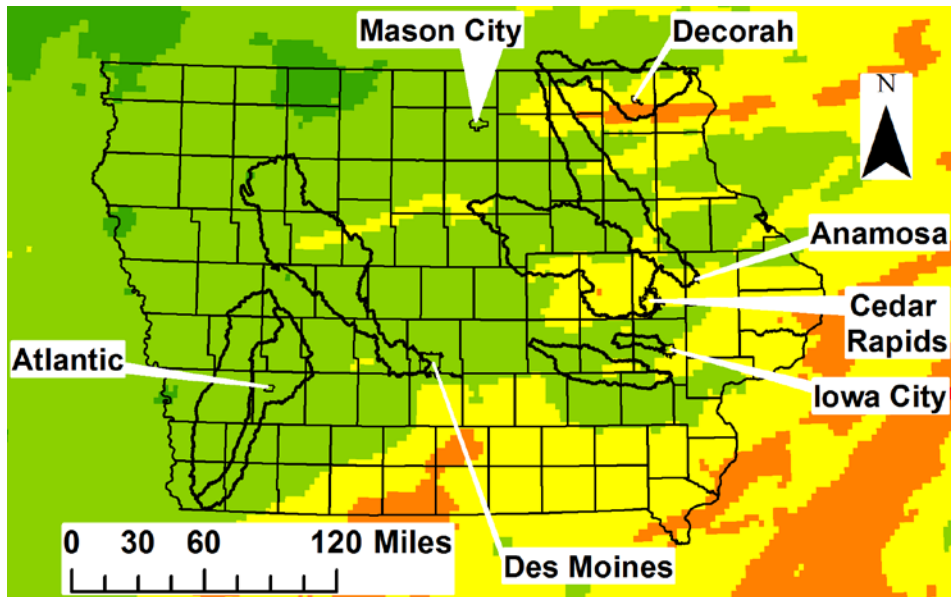
Percent Change (%)



raw data source: <http://prism.oregonstate.edu/>

$$\frac{Rain_{2017} - Rain_{1981-2010}}{Rain_{1981-2010}} \times 100$$

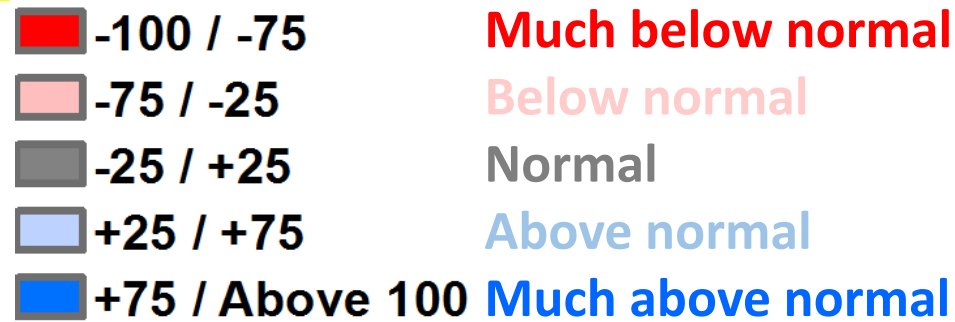
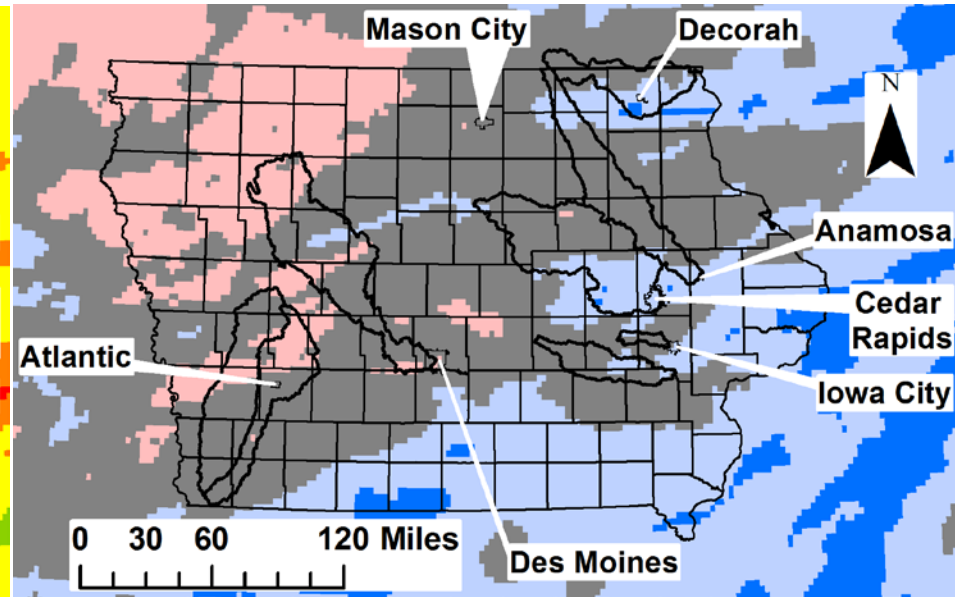
Precipitation (in)



April 2017



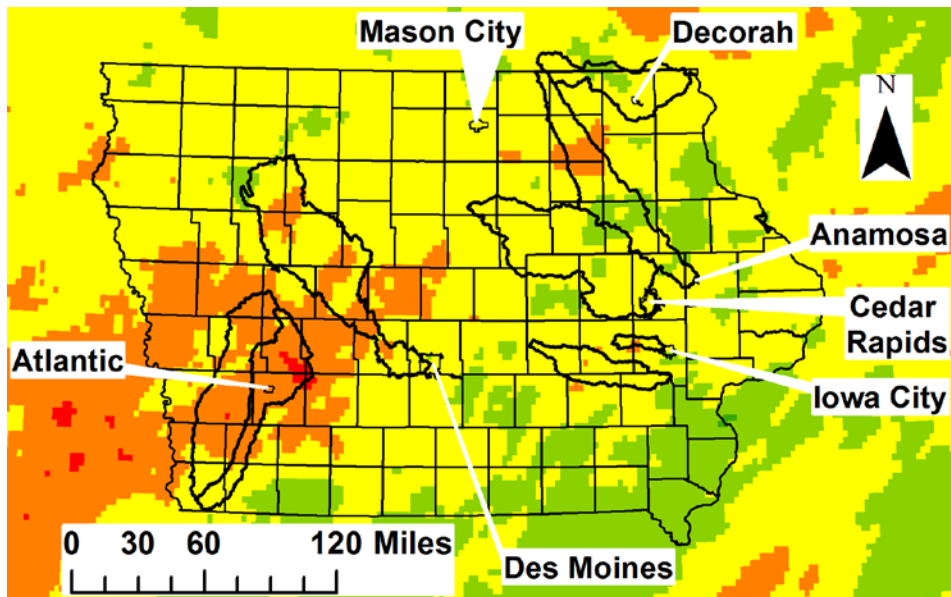
Percent Change (%)



raw data source: <http://prism.oregonstate.edu/>

$$\frac{Rain_{2017} - Rain_{1981-2010}}{Rain_{1981-2010}} \times 100$$

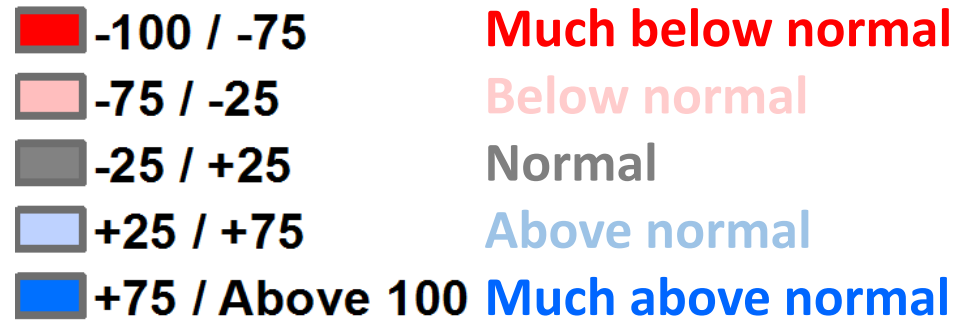
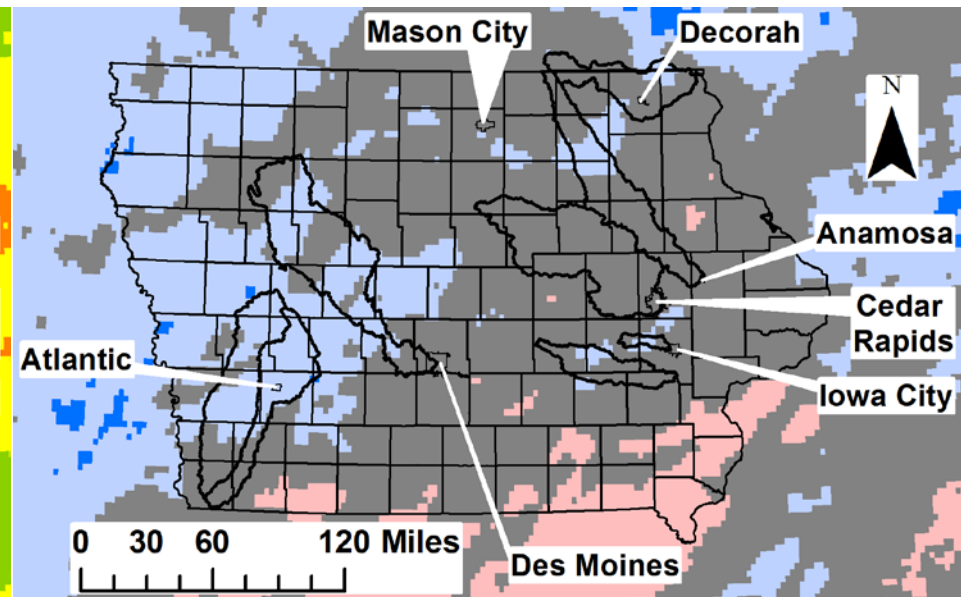
Precipitation (in)



May 2017



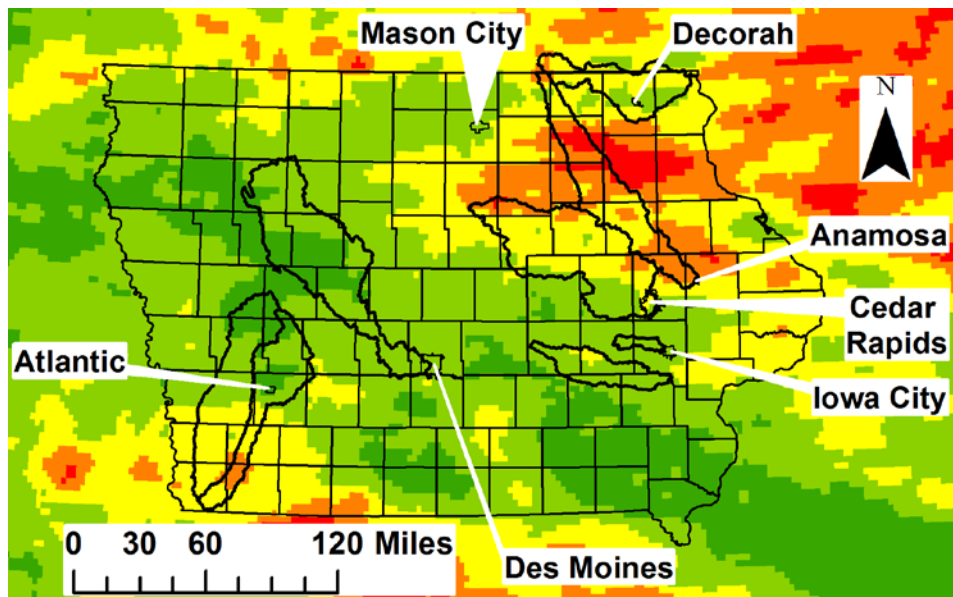
Percent Change (%)



raw data source: <http://prism.oregonstate.edu/>

$$\frac{Rain_{2017} - Rain_{1981-2010}}{Rain_{1981-2010}} \times 100$$

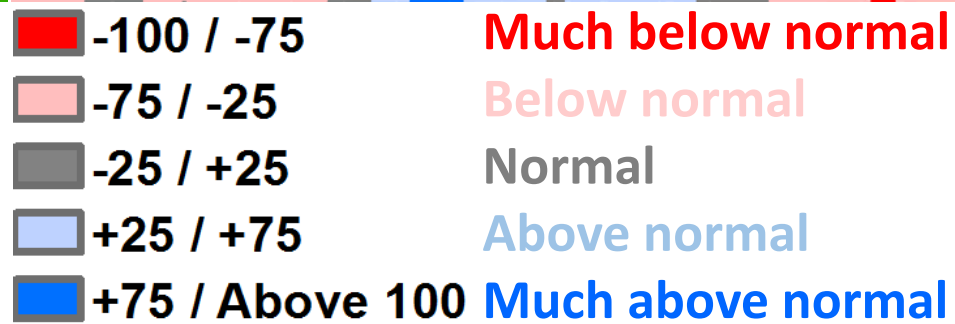
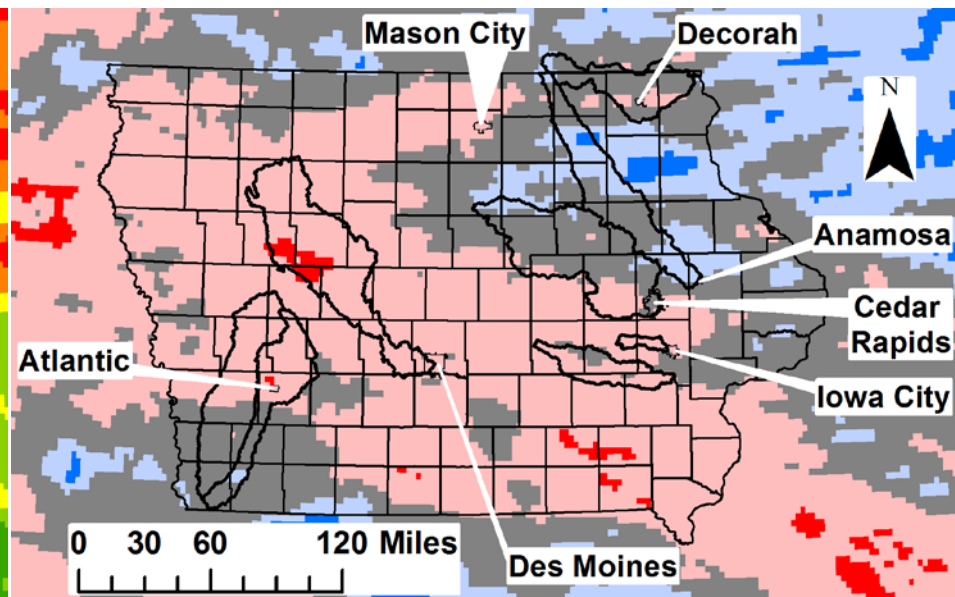
Precipitation (in)



June 2017



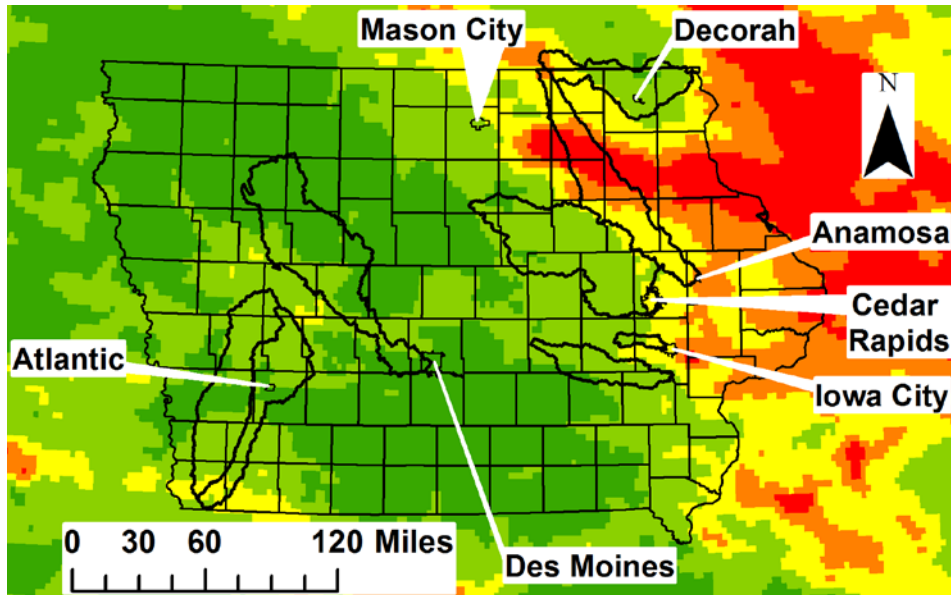
Percent Change (%)



raw data source: <http://prism.oregonstate.edu/>

$$\frac{Rain_{2017} - Rain_{1981-2010}}{Rain_{1981-2010}} \times 100$$

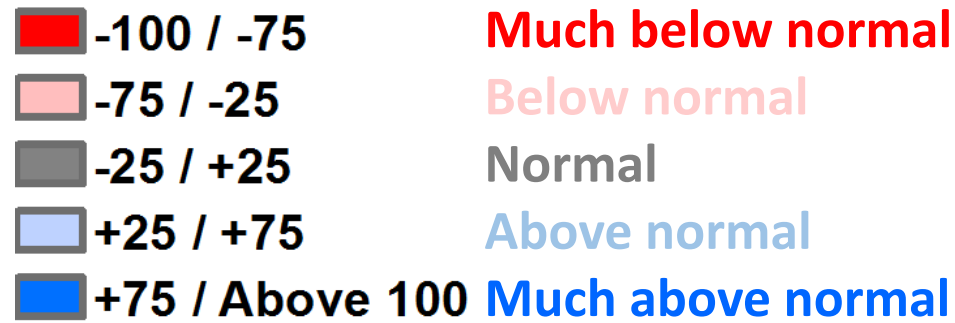
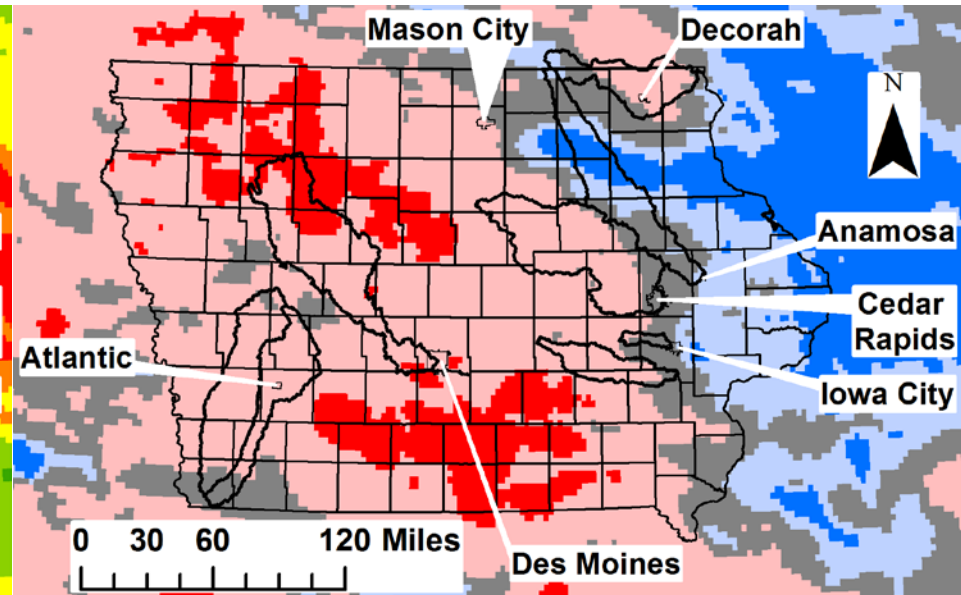
Precipitation (in)



July 2017



Percent Change (%)



raw data source: <http://prism.oregonstate.edu/>

$$\frac{Rain_{2017} - Rain_{1981-2010}}{Rain_{1981-2010}} \times 100$$

The Iowa Watershed Approach

Rain (in)

0 - 1

1 - 2

2 - 3

3 - 4

4 - 5

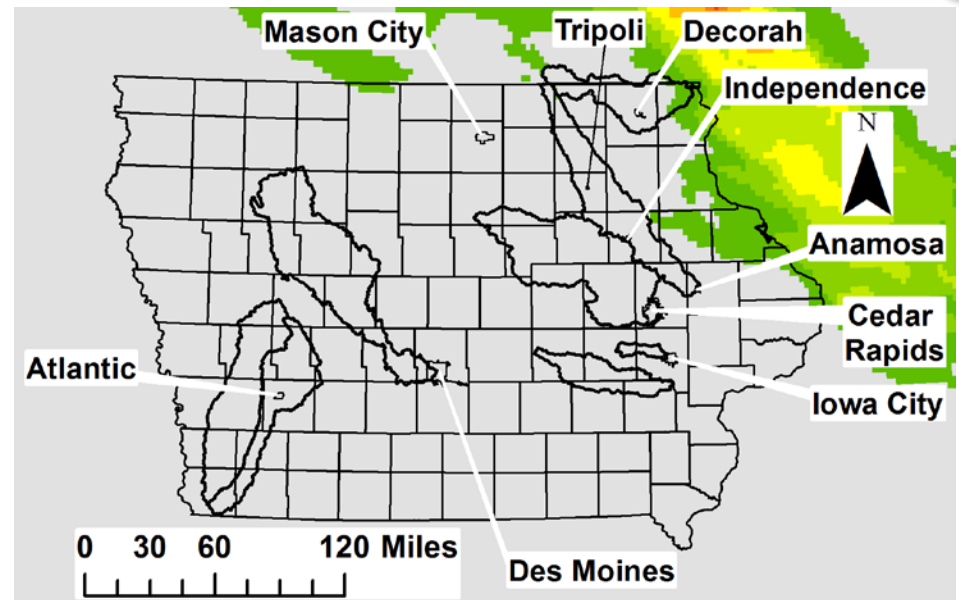
5 - 6

6 - 7

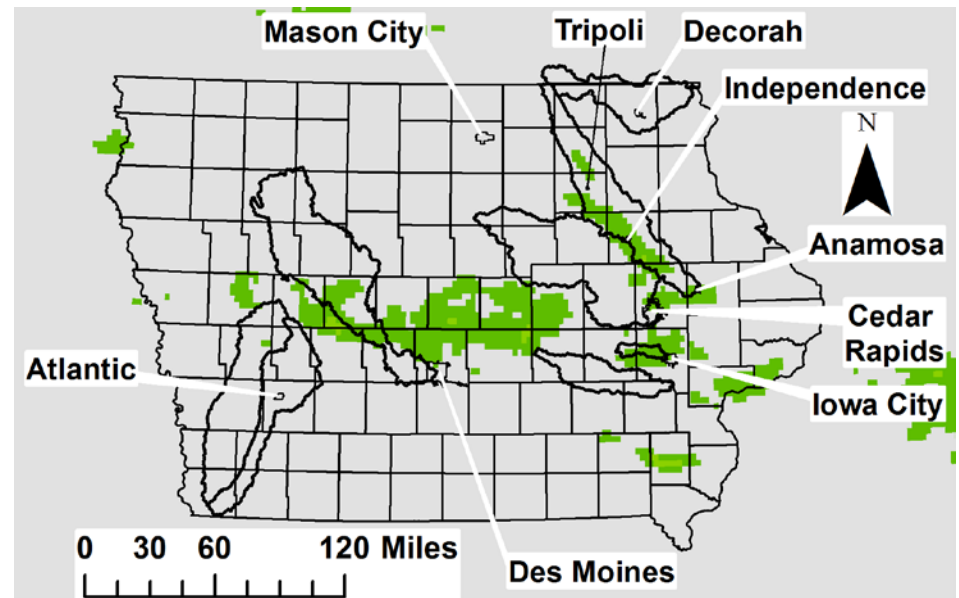
7 - 8

8 - 9

July 20/2017



July 21/2017

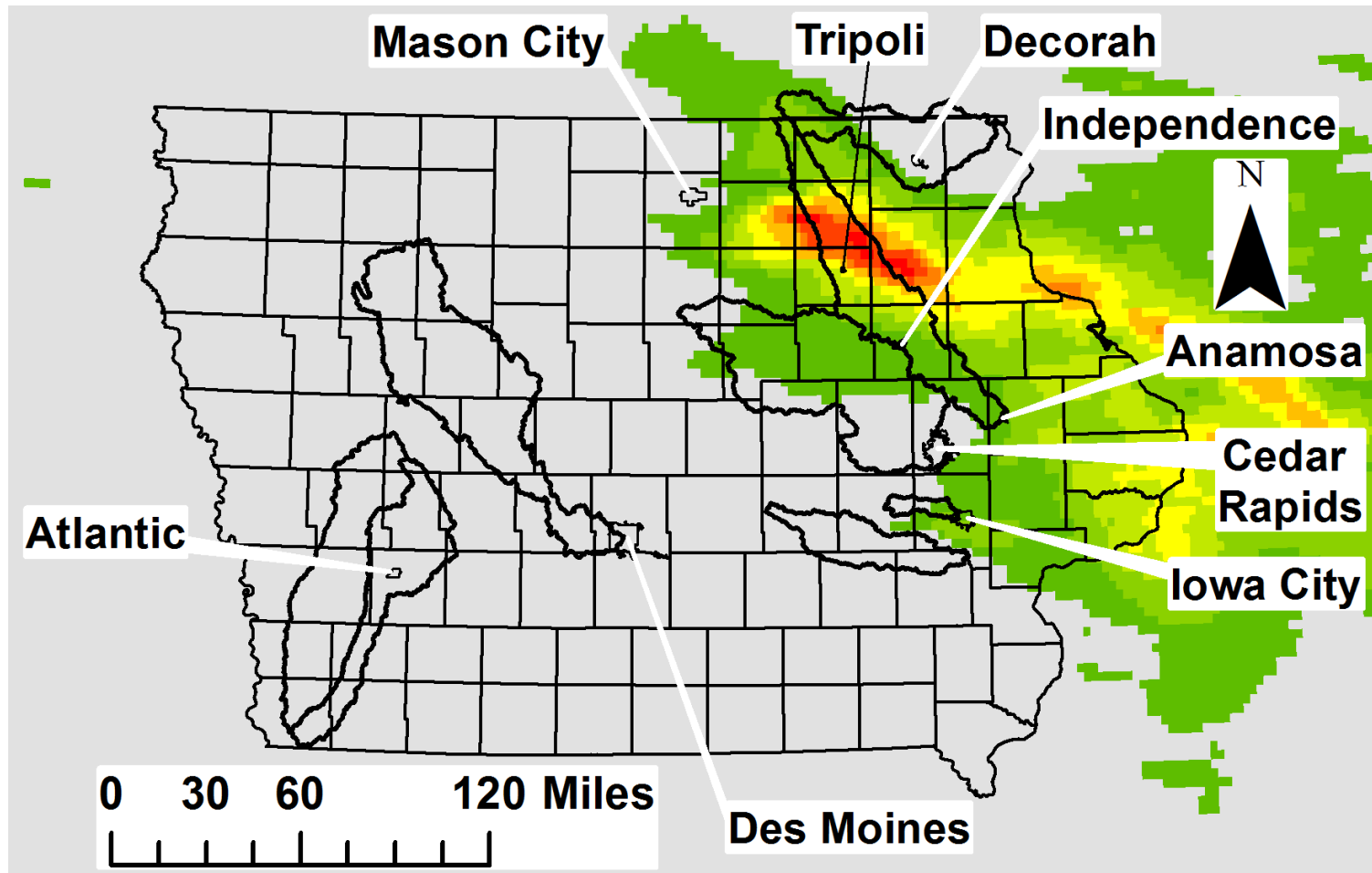


raw data source: <http://prism.oregonstate.edu/>

The Iowa Watershed Approach

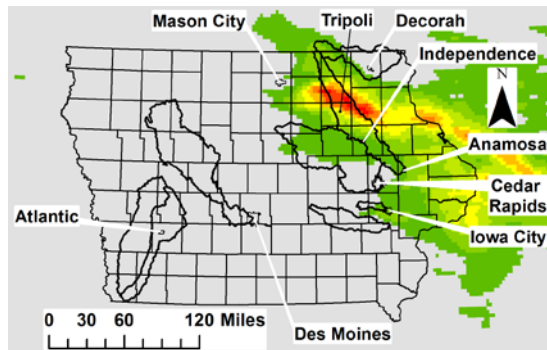
July 22/2017

Rain (in)

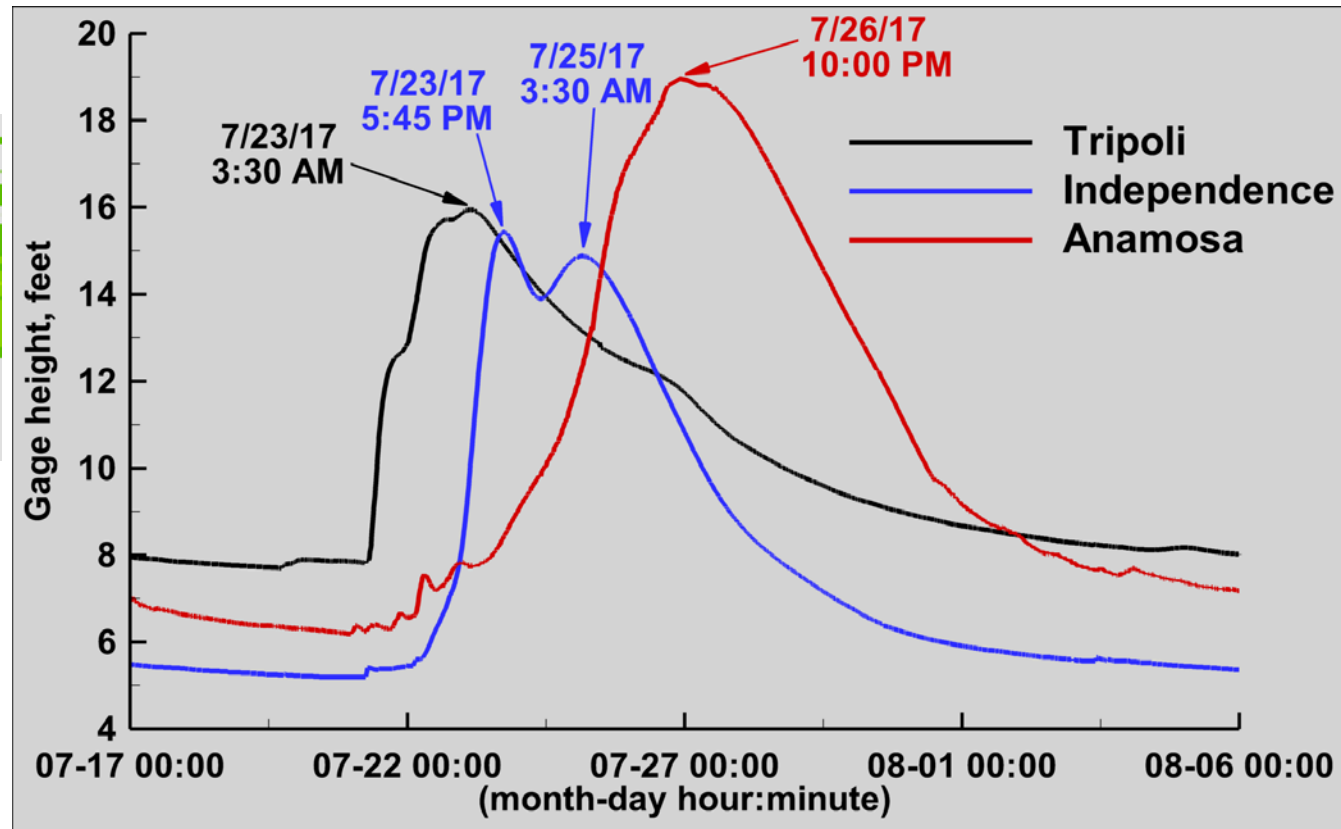
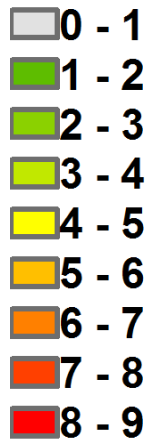


The Iowa Watershed Approach

July 22/2017

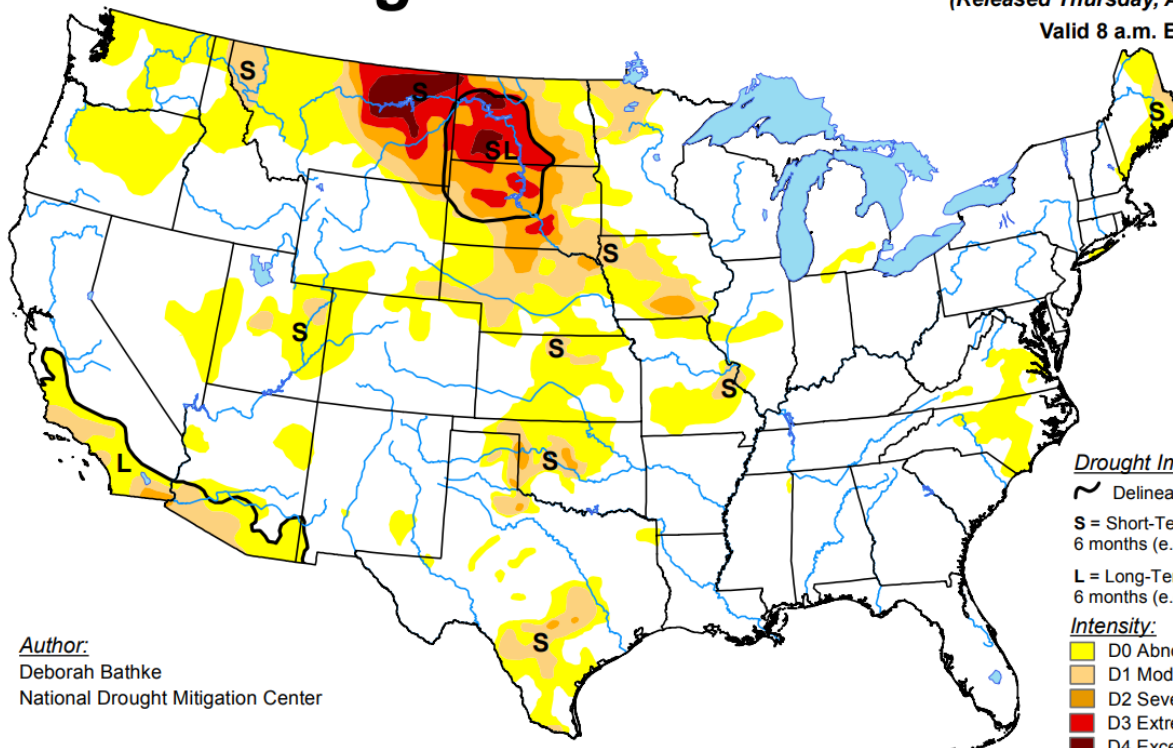


Rain (in)



U.S. Drought Monitor

August 1, 2017
(Released Thursday, Aug. 3, 2017)
Valid 8 a.m. EDT



Author:
Deborah Bathke
National Drought Mitigation Center

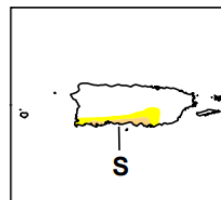
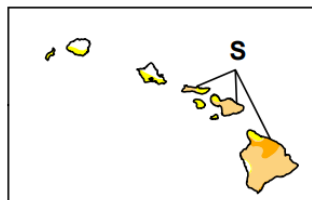
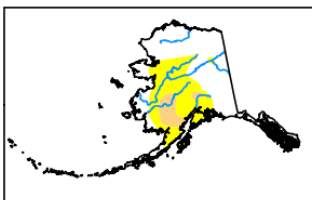
Drought Impact Types:

- ~ Delineates dominant impacts
- S = Short-Term, typically less than 6 months (e.g. agriculture, grasslands)
- L = Long-Term, typically greater than 6 months (e.g. hydrology, ecology)

Intensity:

- Yellow: D0 Abnormally Dry
- Orange: D1 Moderate Drought
- Dark Orange: D2 Severe Drought
- Red: D3 Extreme Drought
- Dark Red: D4 Exceptional Drought

The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. See accompanying text summary for forecast statements.



<http://droughtmonitor.unl.edu/>



A vision for a more resilient Iowa

The Iowa Watershed Approach

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