



Iowa Flood Center: Current Projects

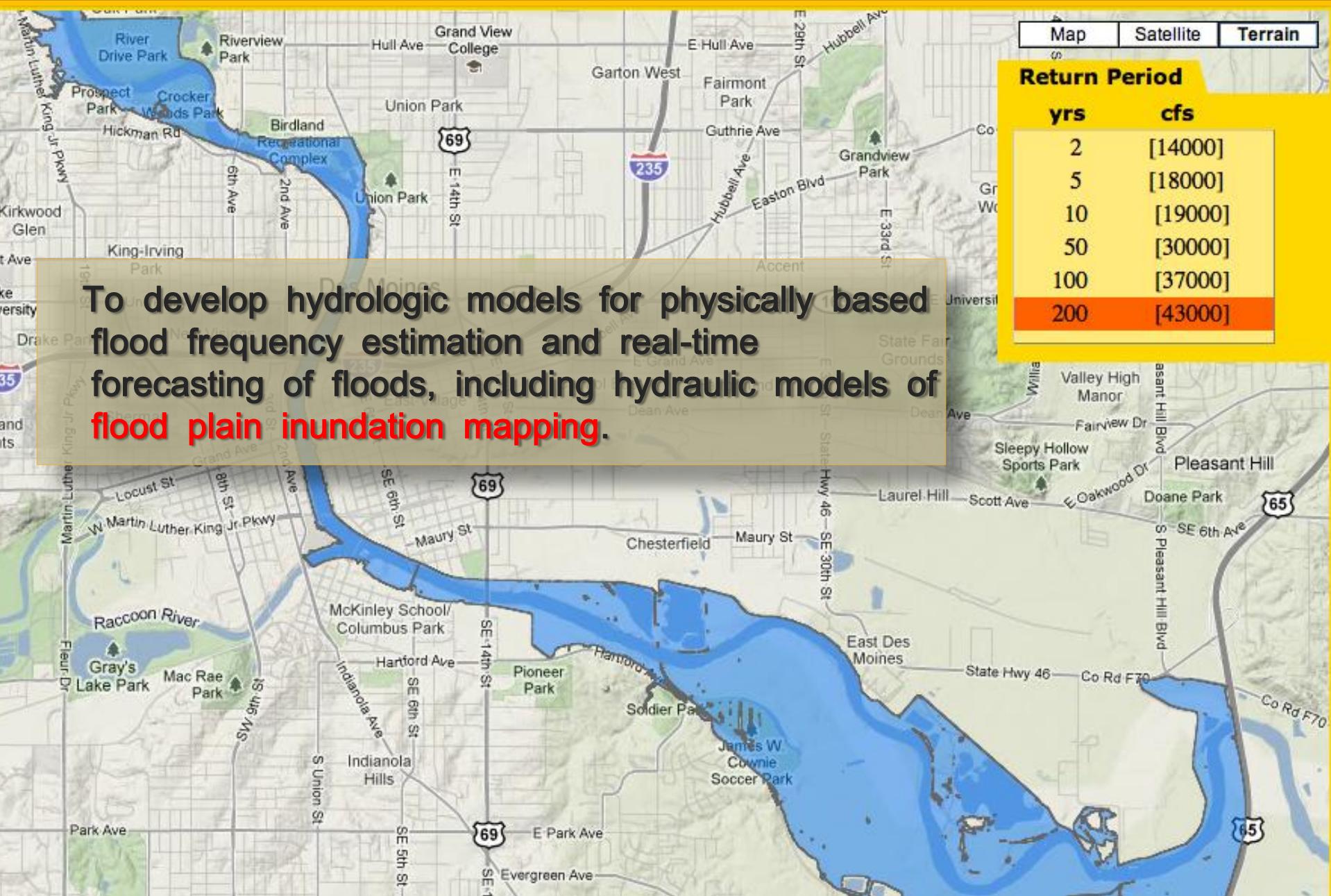
IOWA HOUSE FILE 822

DIVISION VI

Sec. 15. NEW SECTION. 466C.1 IOWA FLOOD CENTER.

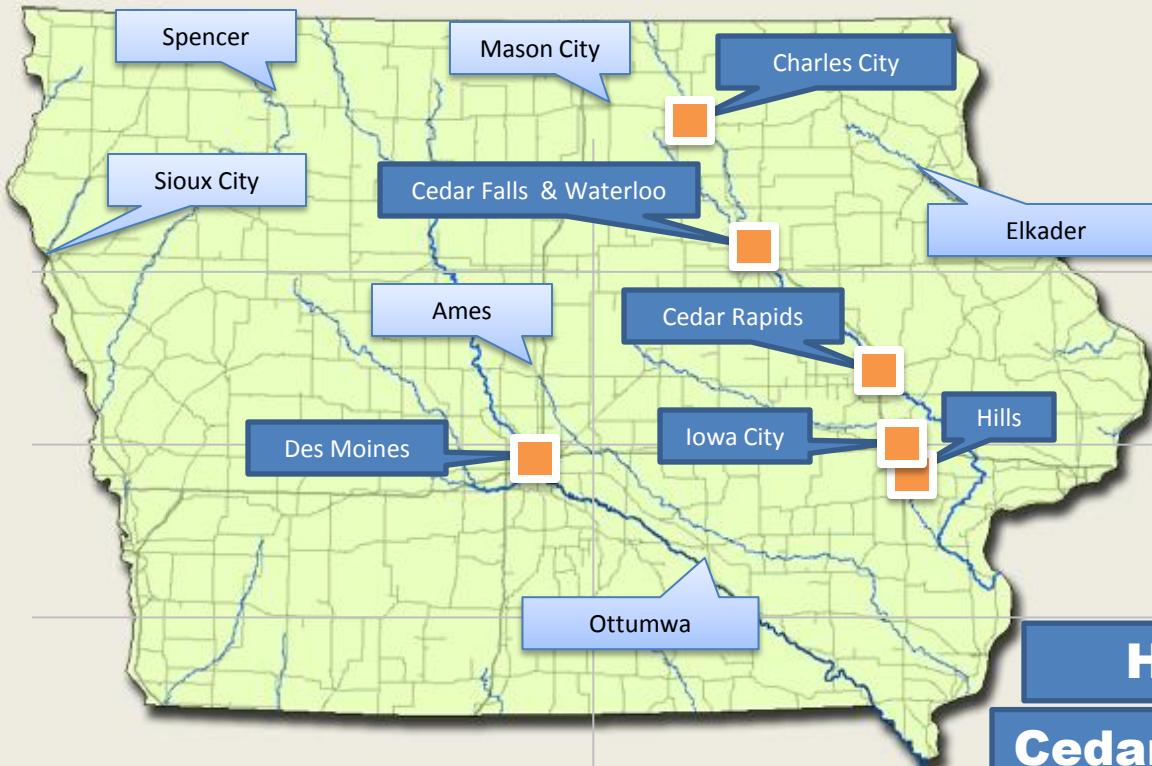
1. The state board of regents shall establish and maintain in Iowa City as a part of the state university of Iowa an Iowa flood center. In conducting the activities of this chapter, the center shall work cooperatively with the department of natural resources, the department of agriculture and land stewardship, the water resources coordinating council, and other state and federal agencies.
2. The Iowa flood center shall have all of the following purposes:
 - a. To develop hydrologic models for physically based flood frequency estimation and real-time forecasting of floods, including hydraulic models of flood plain inundation mapping.
 - b. To establish community-based programs to improve flood monitoring and prediction along Iowa's major waterways and to support ongoing flood research.
 - c. To share resources and expertise of the Iowa flood center.
 - d. To assist in the development of a workforce in the state, knowledgeable regarding flood research, prediction, and mitigation strategies.

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To develop hydrologic models for physically based
flood frequency estimation and real-time
forecasting of floods, including hydraulic models of
flood plain inundation mapping.

Flood Inundation Maps



Ames
Elkader
Ottumwa
Mason City
Sioux City
Spencer

Hills
Cedar Rapids

Des Moines

Cedar Falls & Waterloo

Charles City

Iowa City



2009

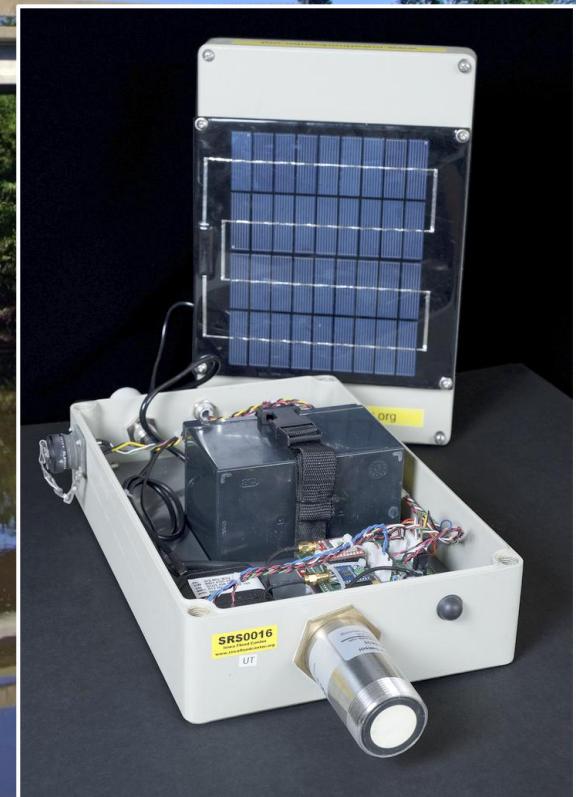
2010

2011

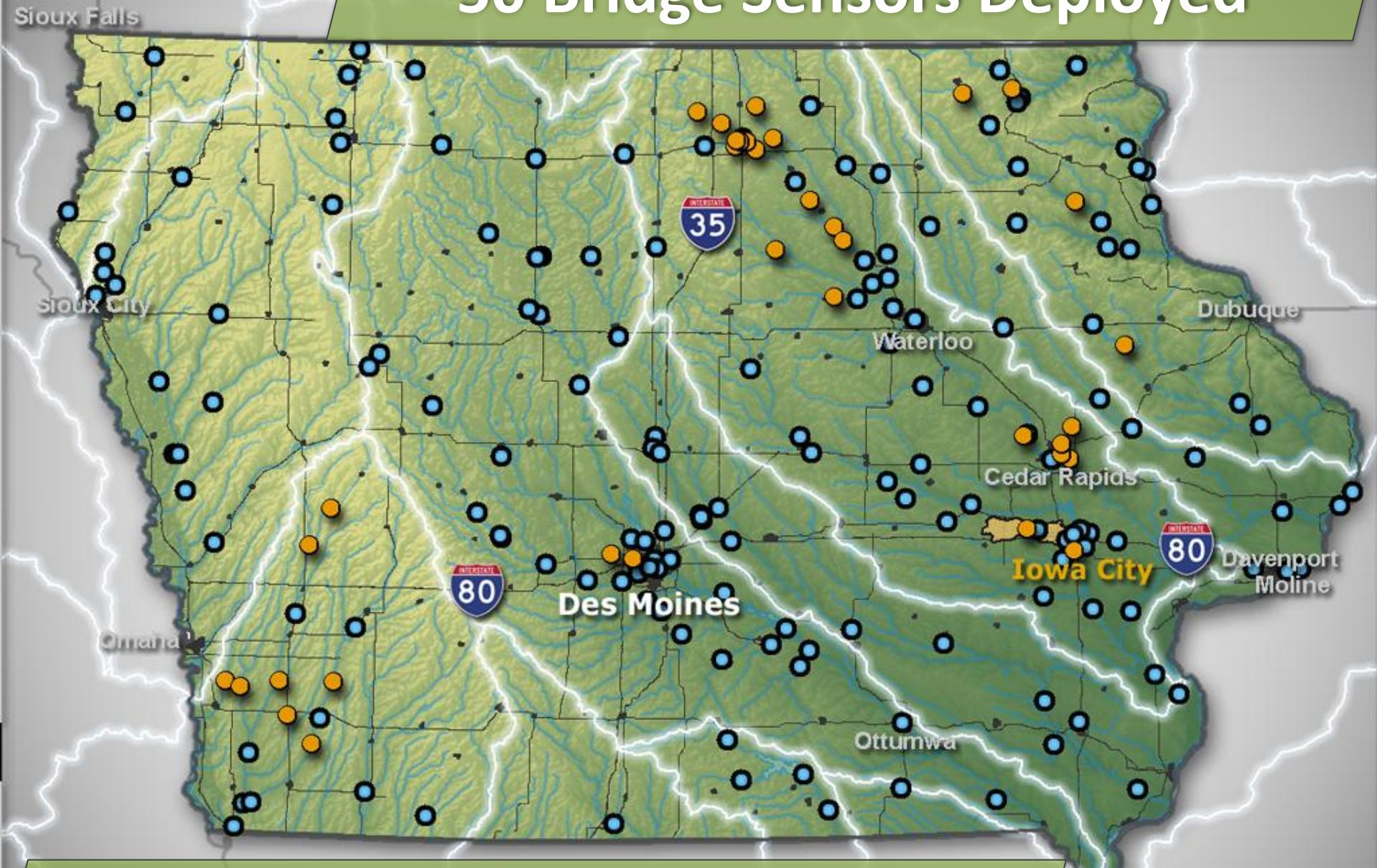
Today

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To establish community-based programs to **improve flood monitoring** and prediction along Iowa's major waterways and to support ongoing flood research.

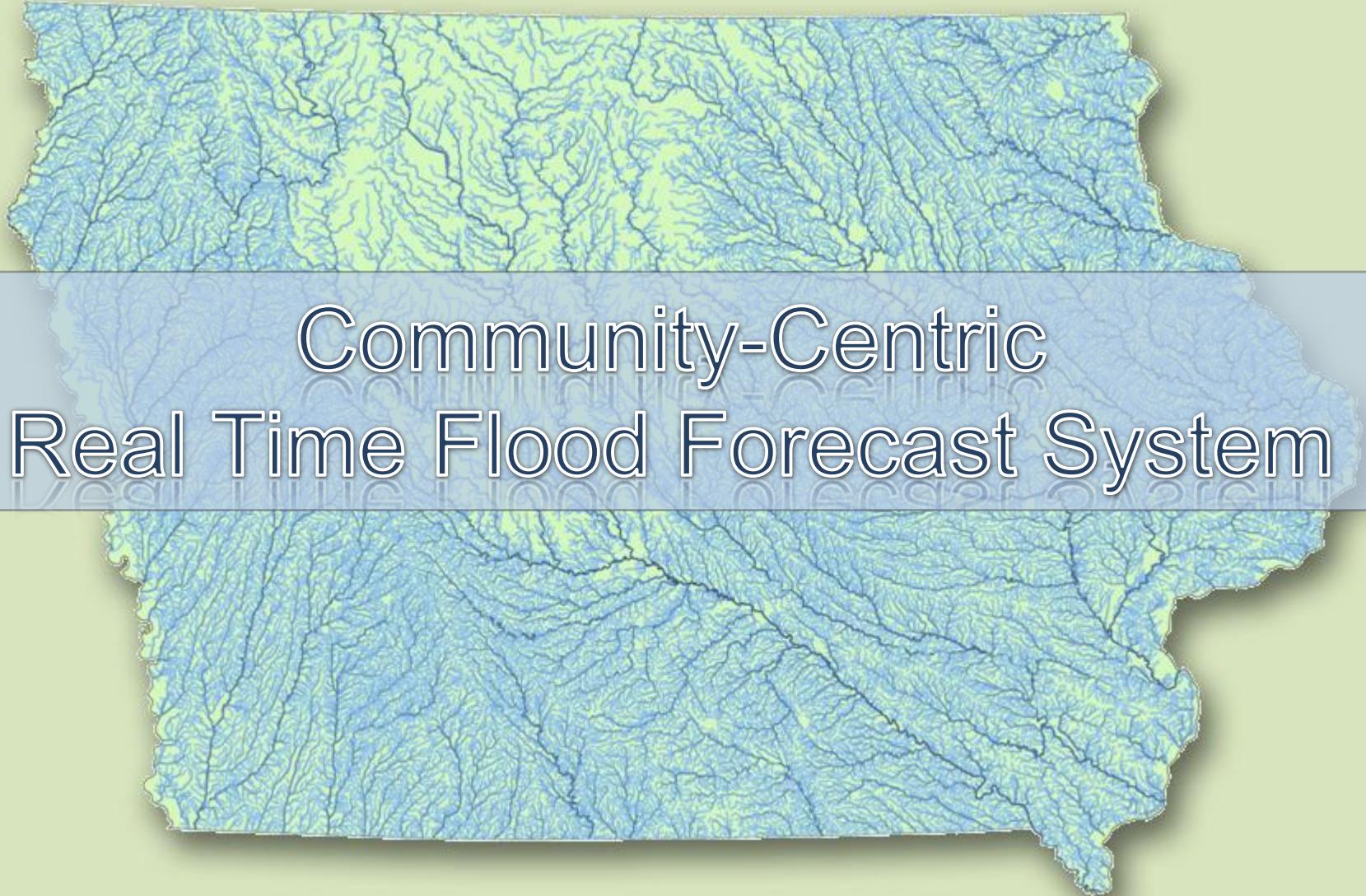


50 Bridge Sensors Deployed

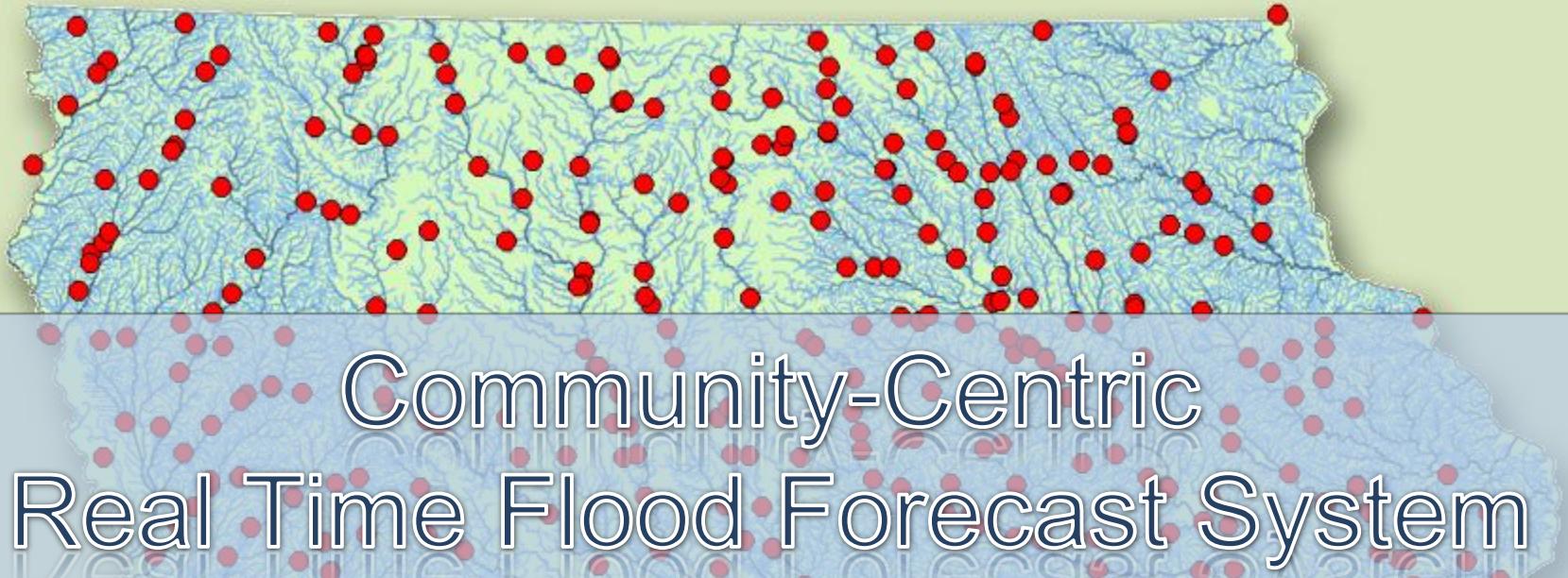


Iowa Flood Center

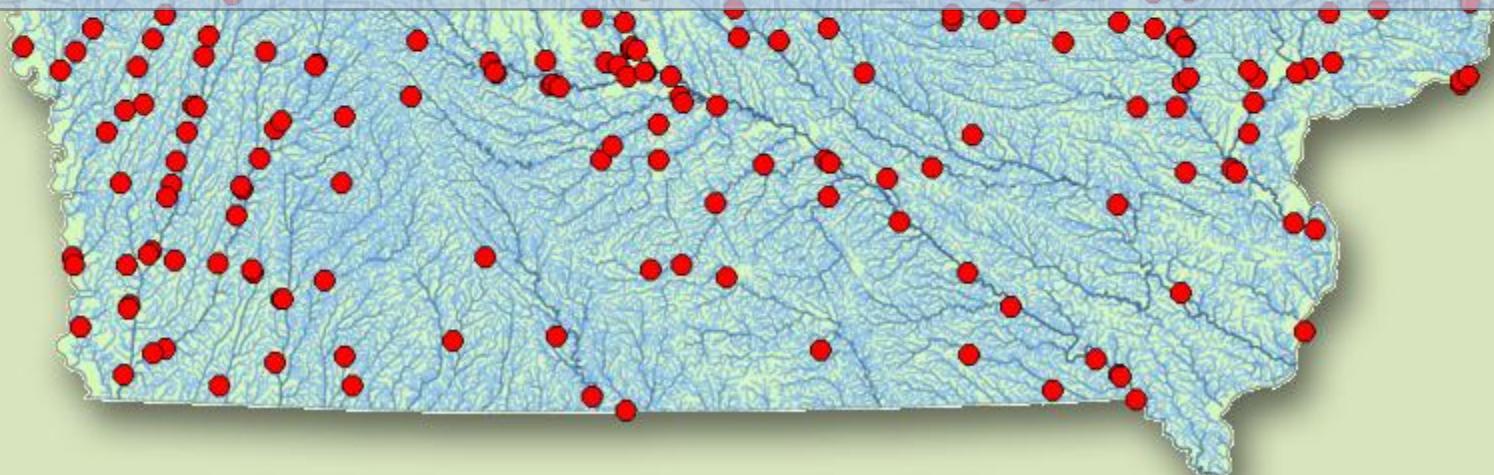
USGS



IOWA FLOOD CENTER



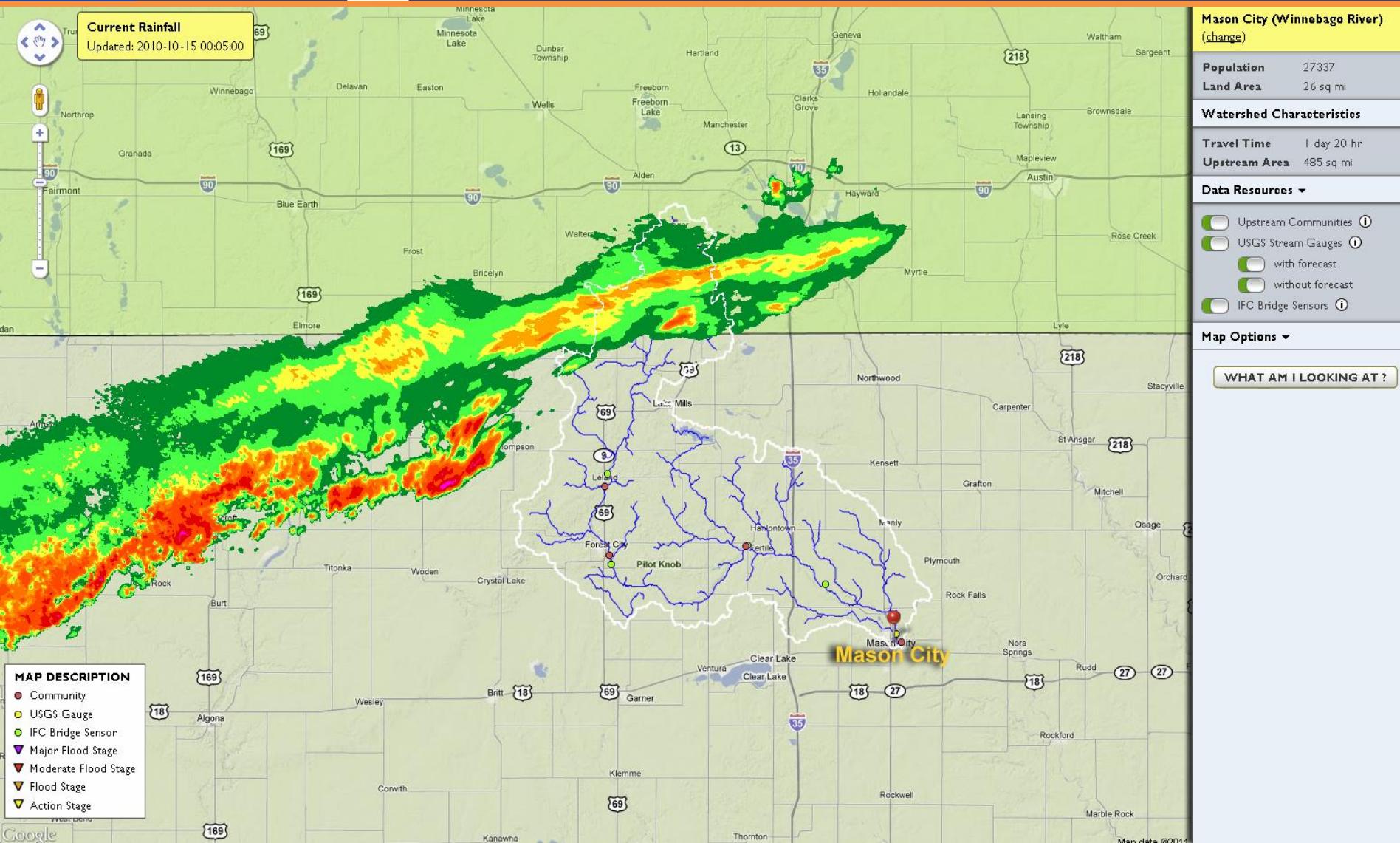
Community-Centric Real Time Flood Forecast System



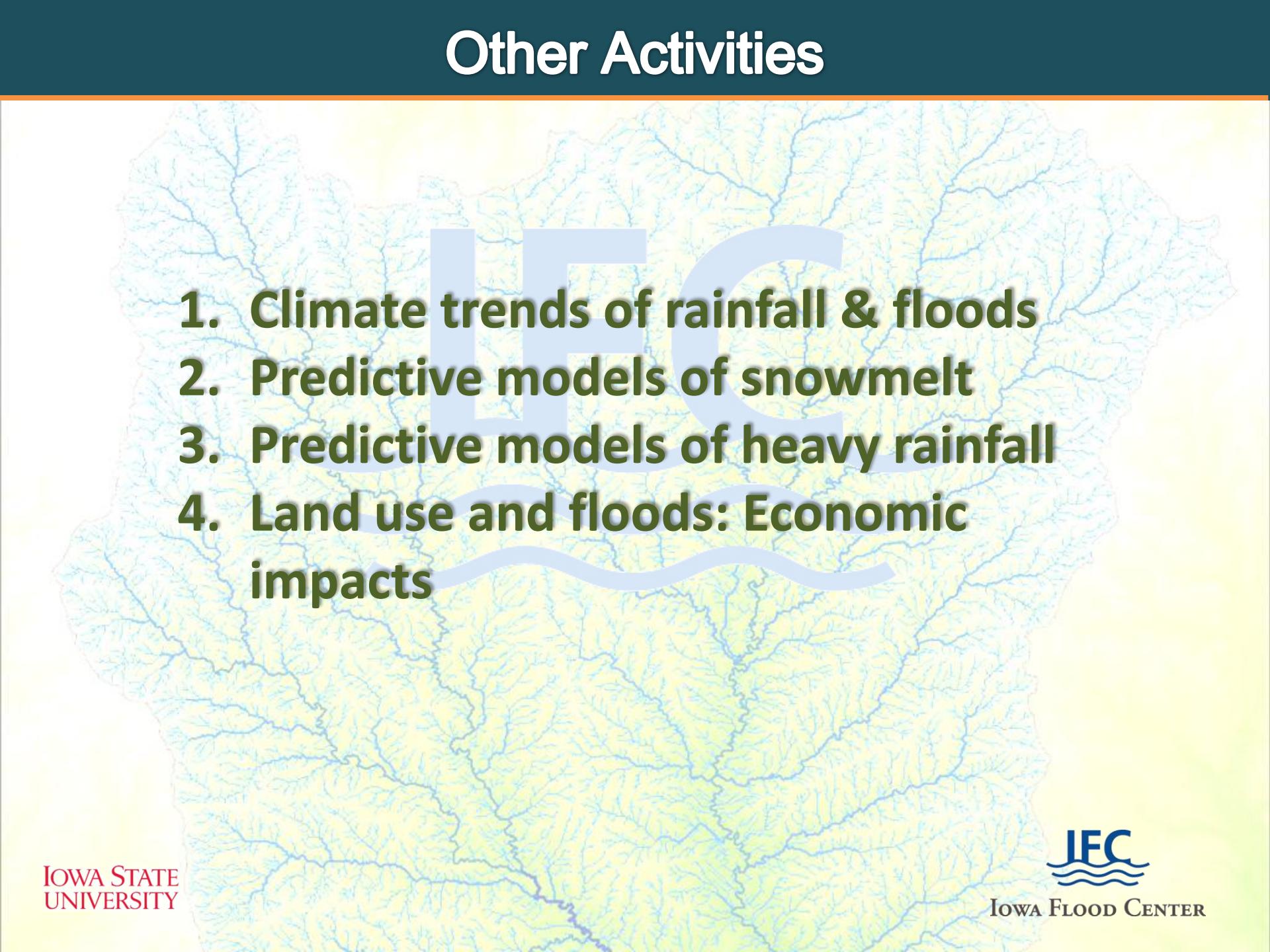
IOWA FLOOD CENTER

Iowa Flood Information System

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Other Activities

- 
- 1. Climate trends of rainfall & floods**
 - 2. Predictive models of snowmelt**
 - 3. Predictive models of heavy rainfall**
 - 4. Land use and floods: Economic impacts**

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To assist in the development of a **workforce** in the state, knowledgeable regarding flood research, prediction, and mitigation strategies.





Thank You!