

Iowa Flood Center: Current Projects

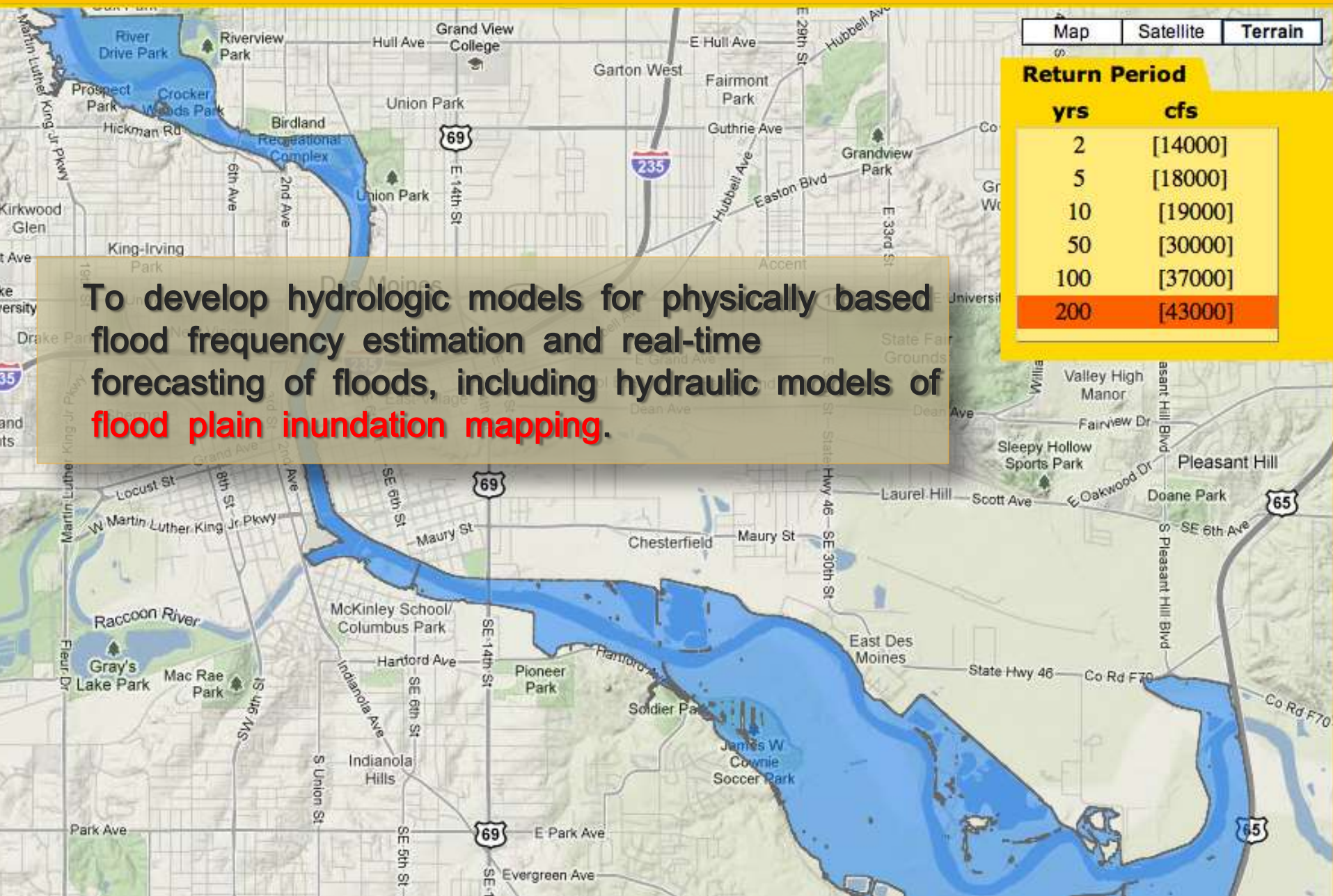
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DIVISION VI

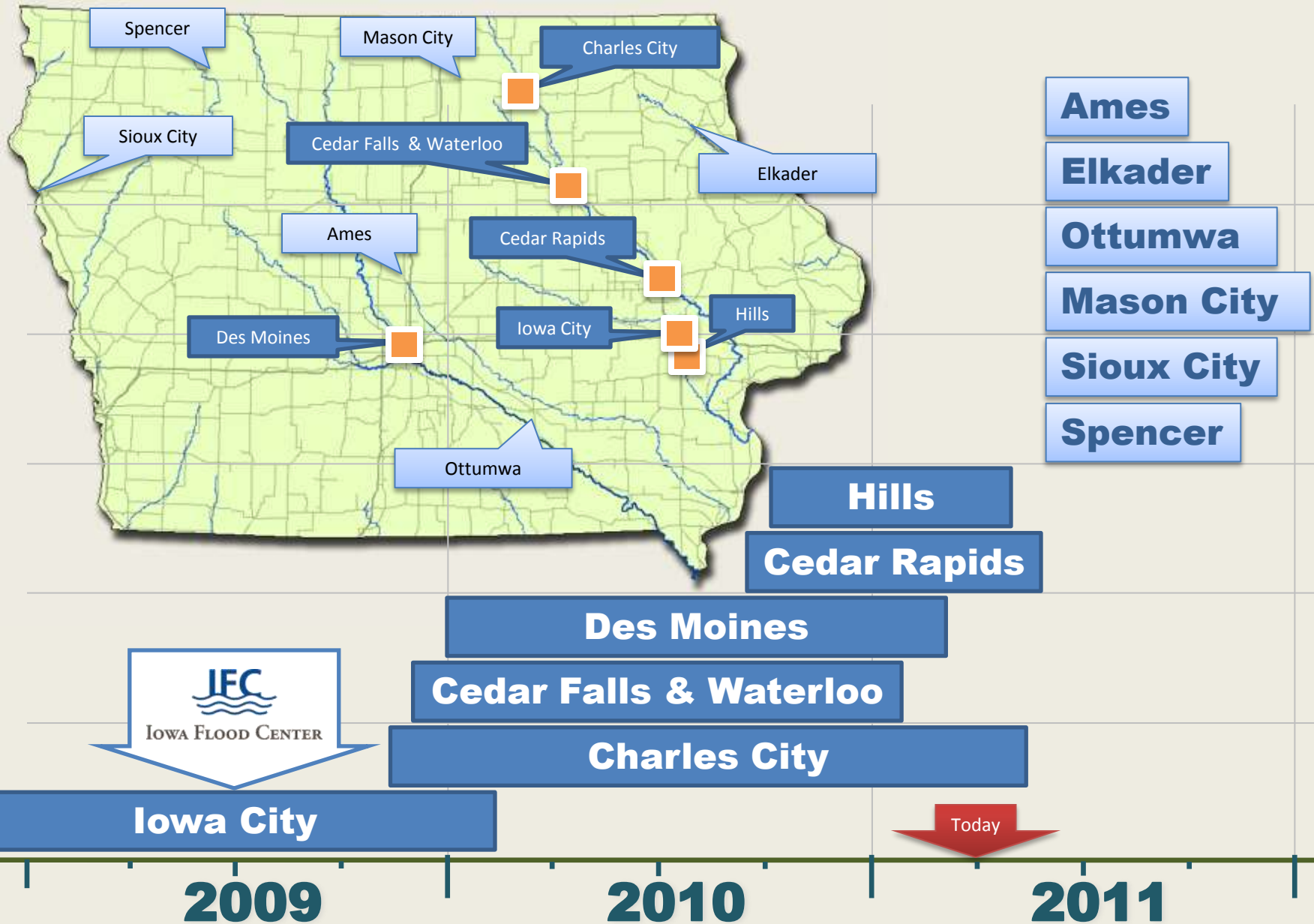
Sec. 15. NEW SECTION. 466C.1 IOWA FLOOD CENTER.

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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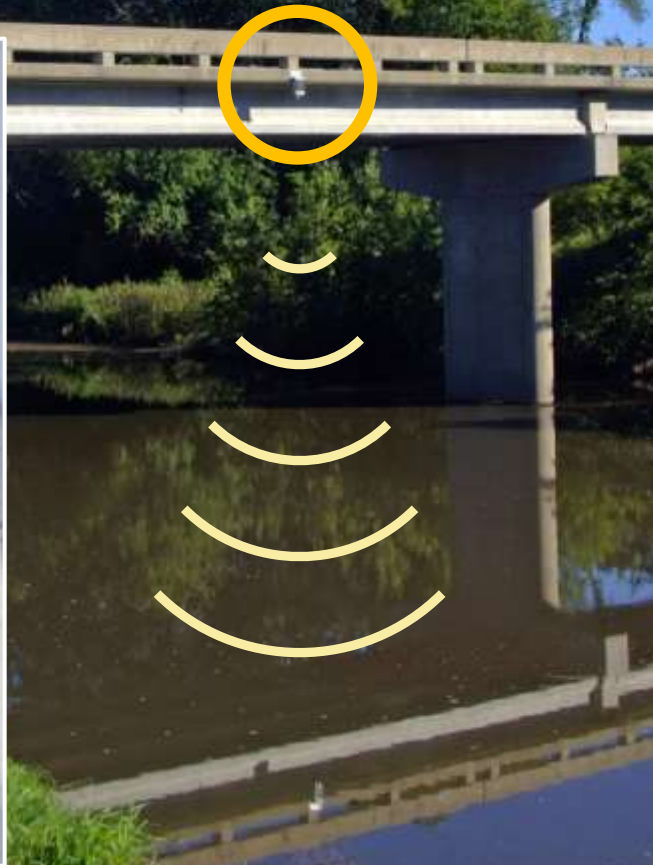


Flood Inundation Maps

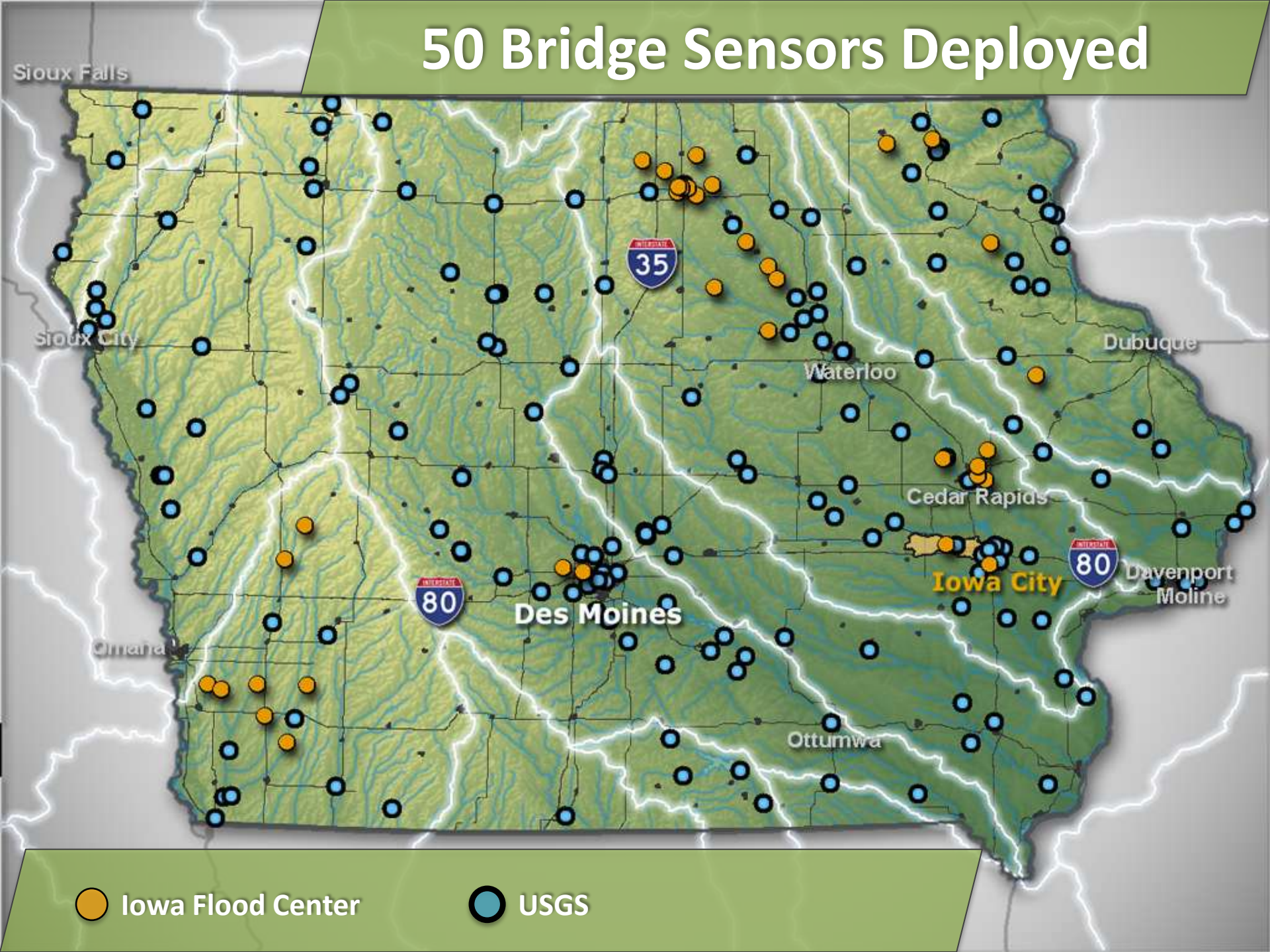


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To establish community-based programs to **improve flood monitoring** and prediction along Iowa's major waterways and to support ongoing flood research.



50 Bridge Sensors Deployed

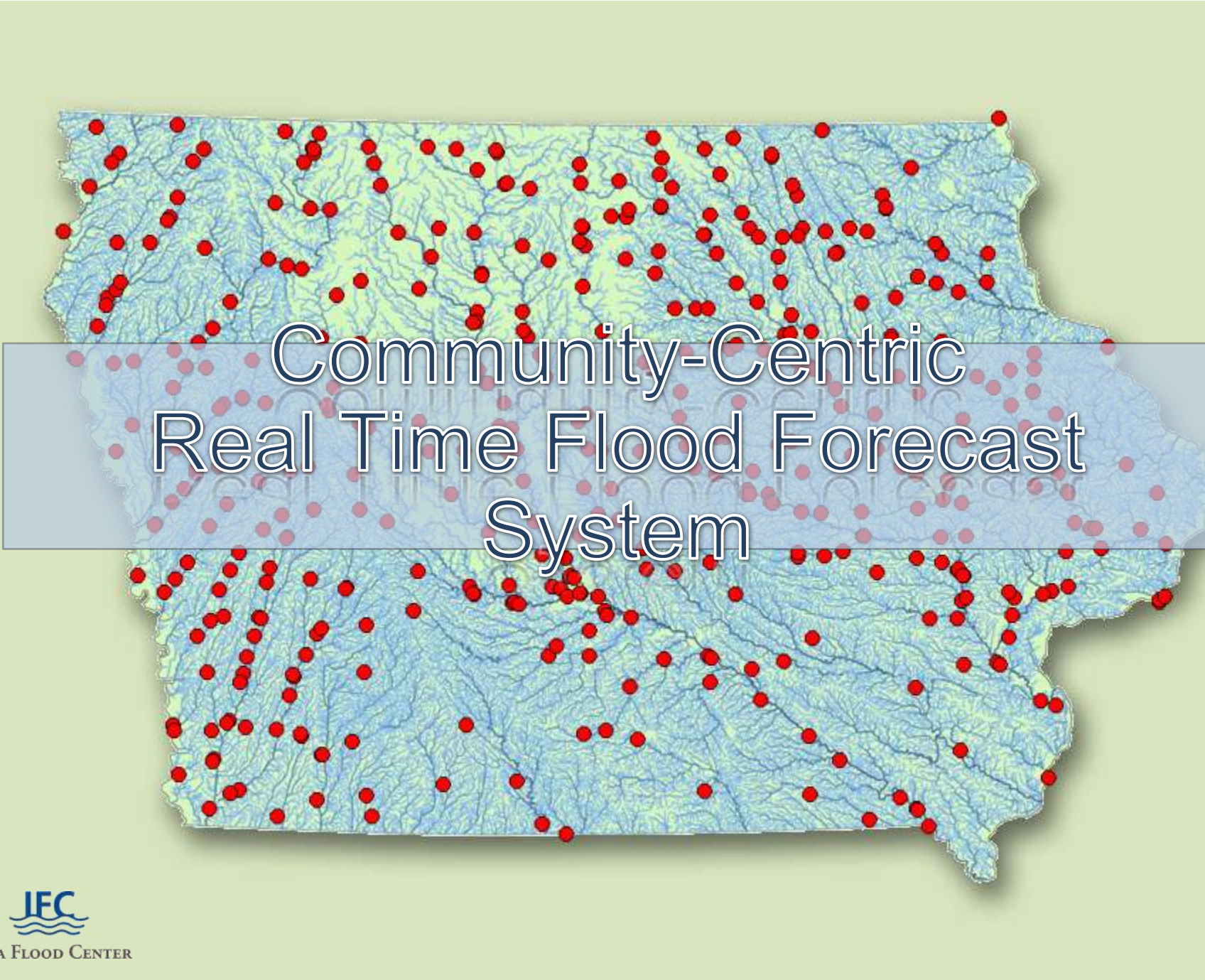




Community-Centric Real Time Flood Forecast System



IOWA FLOOD CENTER

A map of the state of Iowa is shown, overlaid with a dense network of blue lines representing rivers and streams. Numerous red dots are scattered across the map, indicating specific locations for flood forecasting. A semi-transparent blue rectangular box is centered over the map, containing the title text.

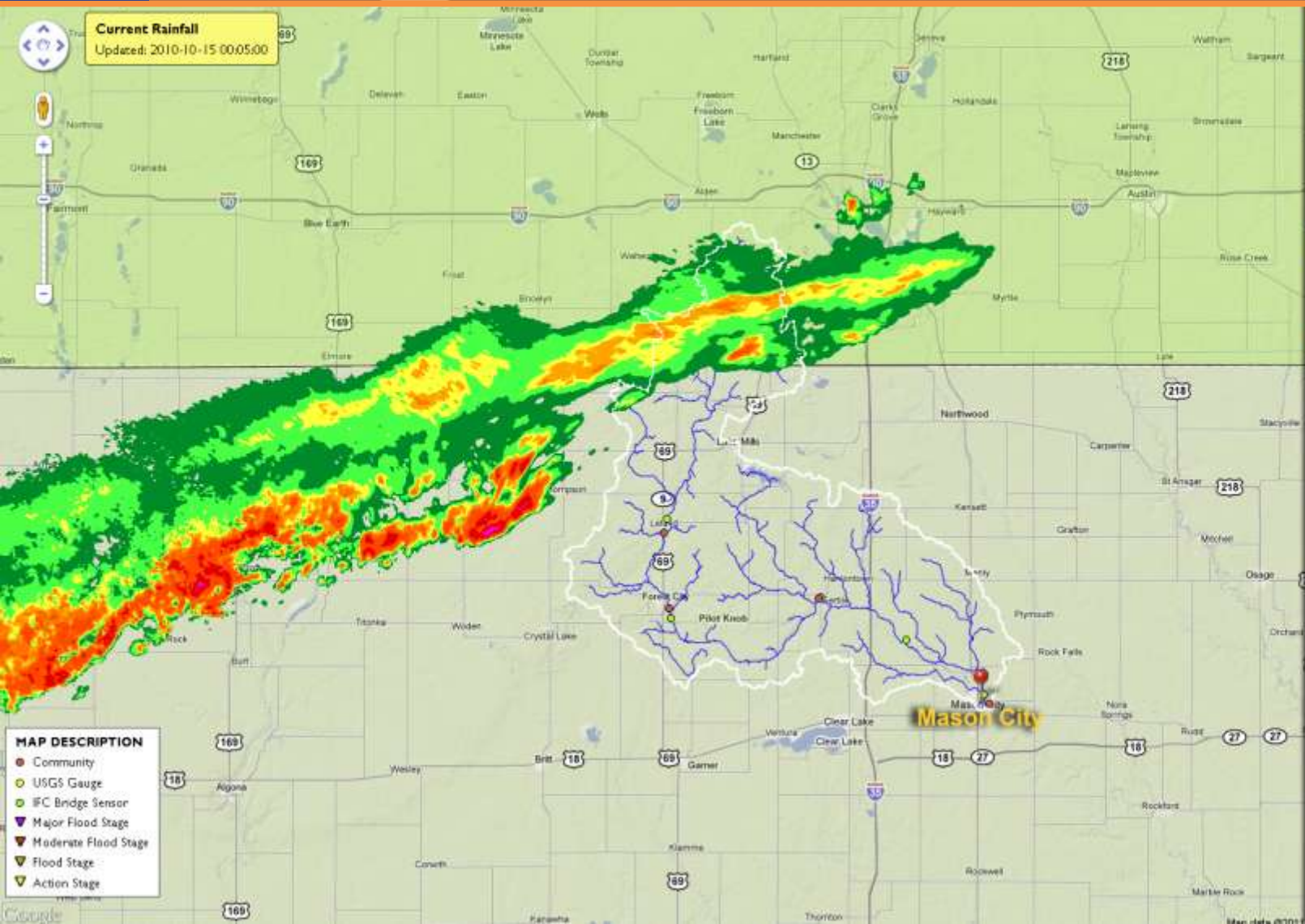
Community-Centric Real Time Flood Forecast System



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Iowa Flood Information System

HOME CURRENT PROJECTS MAPS EDUCATION ABOUT EVENTS NEWS



Mason City (Winnebago River) (change)

Population 27337
Land Area 26 sq mi

Watershed Characteristics

Travel Time 1 day 20 hr
Upstream Area 485 sq mi

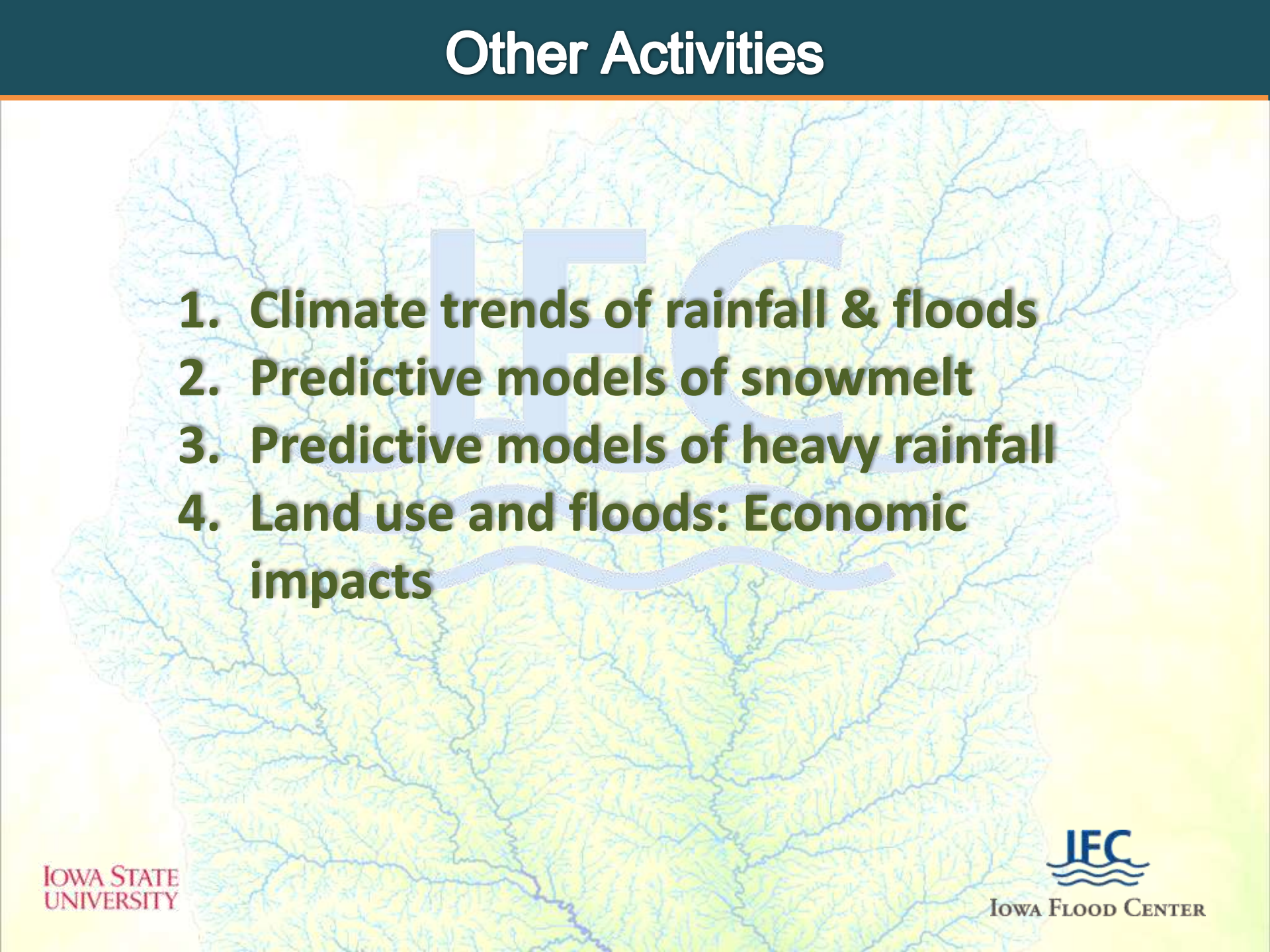
Data Resources

- ☐ Upstream Communities 1
- ☐ USGS Stream Gauges 1
 - ☐ with forecast
 - ☐ without forecast
- ☐ IFC Bridge Sensors 1

Map Options

WHAT AM I LOOKING AT!

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!



IOWA
FLOOD
CENTER

