

Federal Statistics and the Environment

(and don't forget the states)

CNSTAT—AAPS Meeting
May 8, 2009
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The Heinz Center

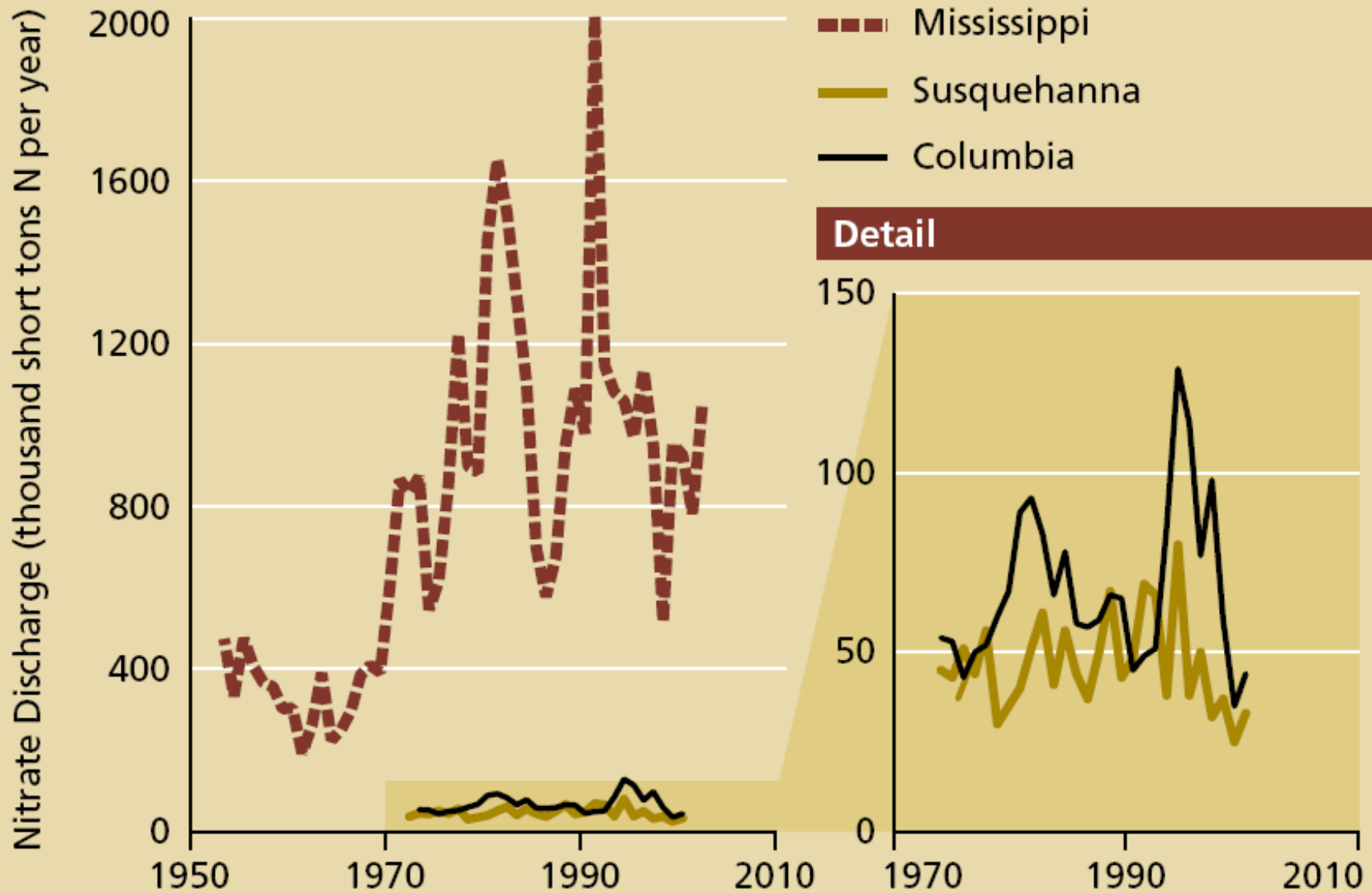
Why are federal environmental statistics REALLY important?

1. Climate change
2. Climate change
3. Climate change

Uses of federal / state data

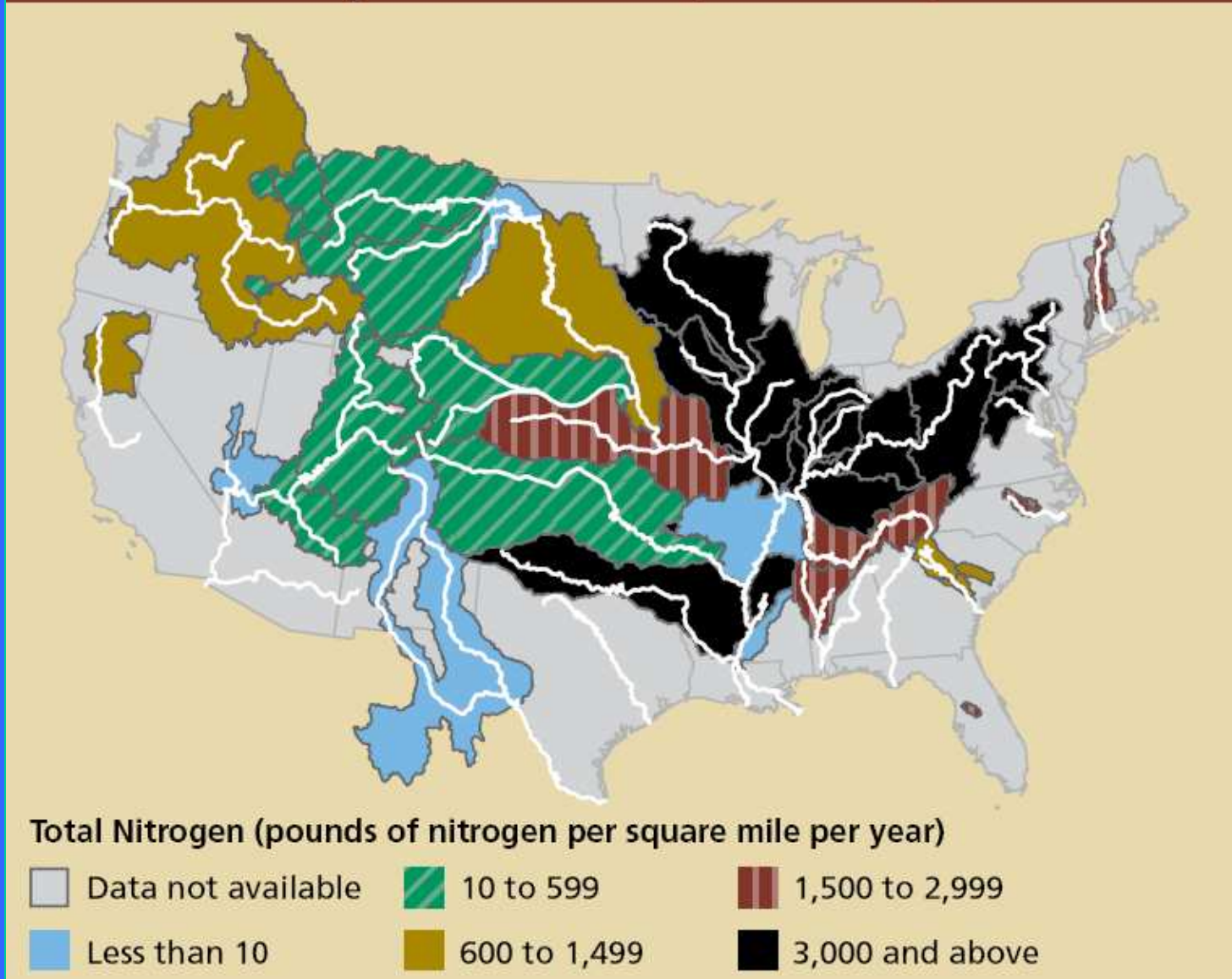
1. Management decisions (local to national)
2. Understand effectiveness
3. Calibrate models
4. Validate models
5. See surprises
6. Tease out cause and effect

Nitrate Input to Coastal Waters by Major U.S. Rivers



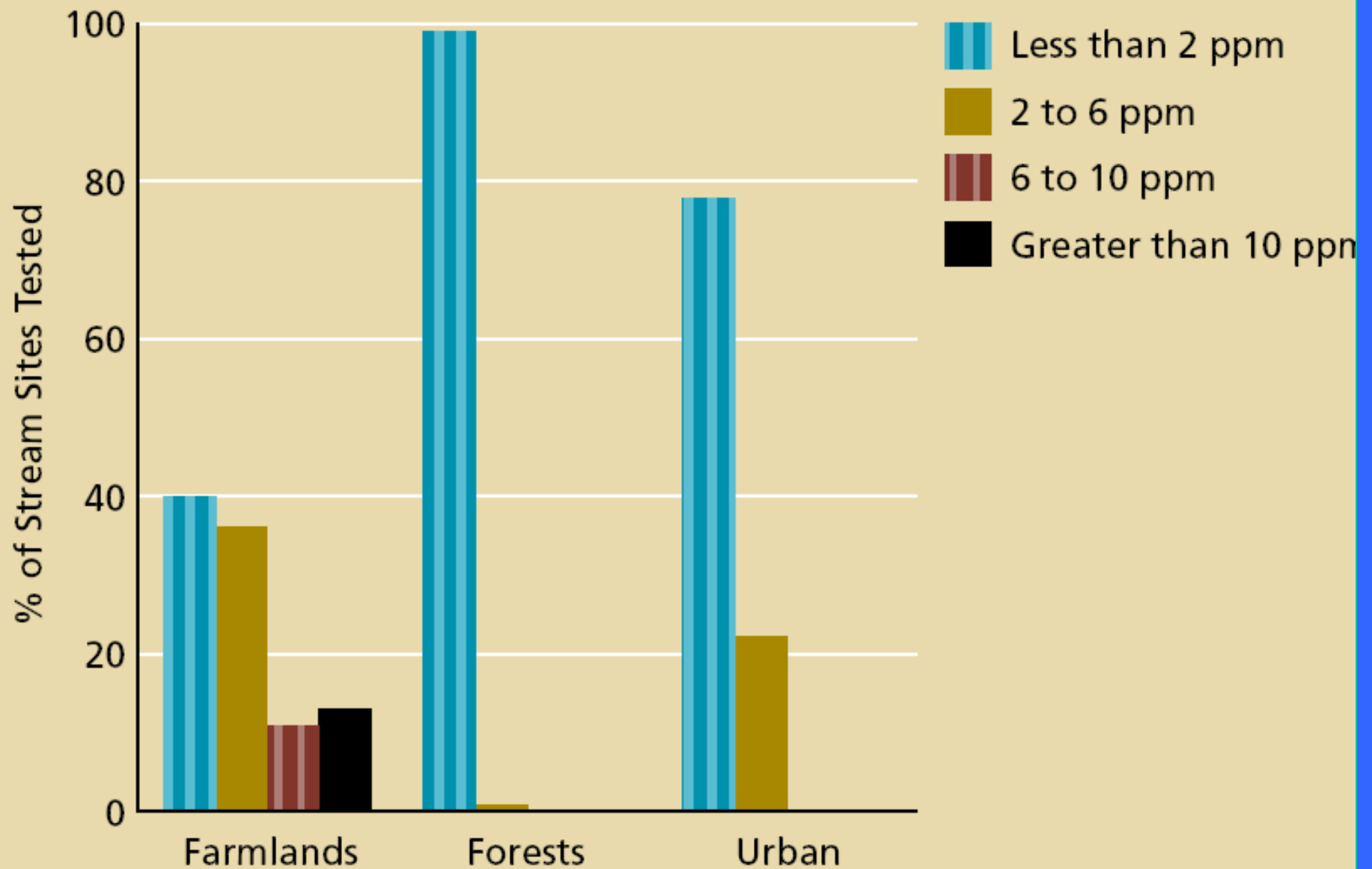
Data – US Geological Survey

Delivery of Total Nitrogen to Streams and Rivers from Major Watersheds (2001–2005)



Data – US Geological Survey

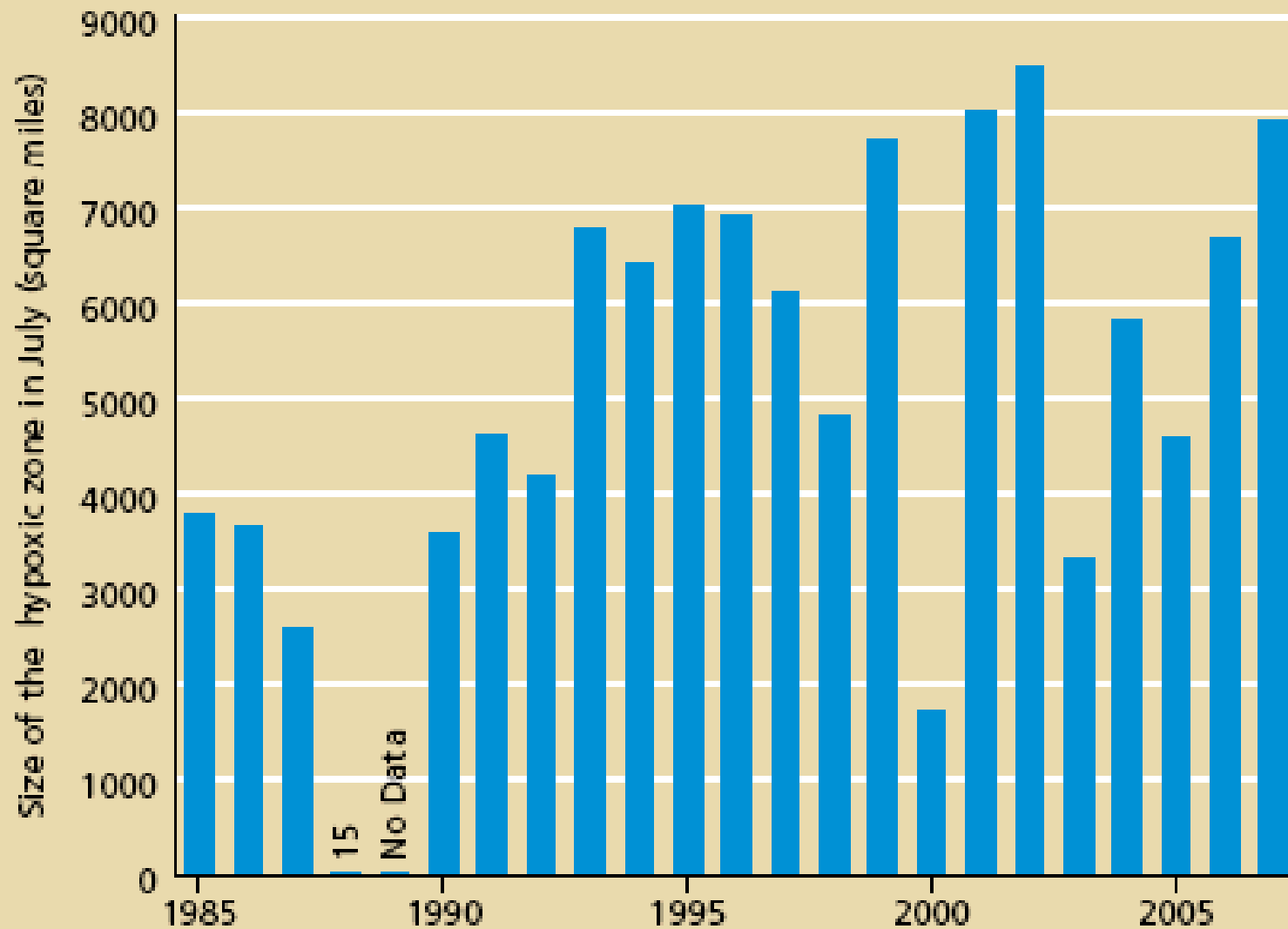
Ecosystem Comparison: Nitrate in Streams, 1992–2001



Data – US Geological Survey

Extent of Hypoxia (Dissolved Oxygen less than 2 ppm) in July

Partial Indicator: Gulf of Mexico



Data: Rabalais and Turner

What is needed?

**Strategic management capacity
(central nervous system)**

Money

Urban and Suburban Areas



Farmlands

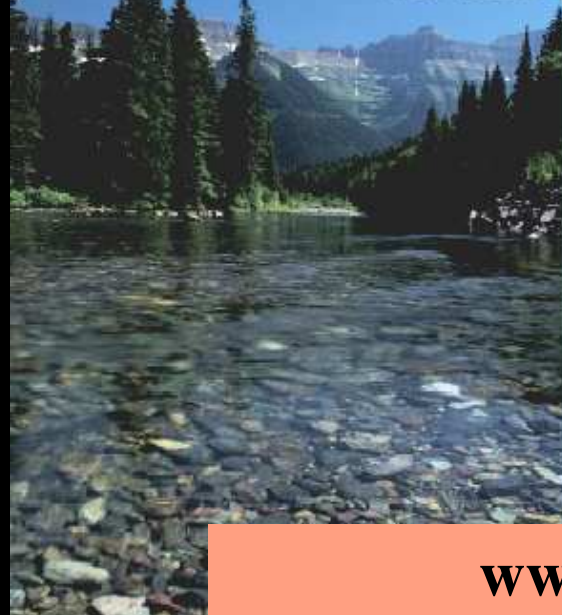


Grasslands and Shrublands



THANK YOU

Fresh Waters



Forests



Coasts and Oceans



www.heinzctr.org/ecosystems