

Initial Progress of the CEAP Synthesis Project: Year One

2009 Water Conference
St. Louis, MO

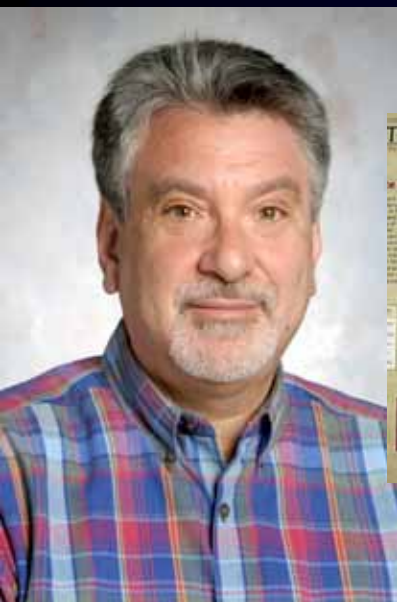
D. Osmond¹, D. Meals², M. Arabi³, D. Hoag³,
A. Luloff⁴, A. Sharpley⁵, D. Line¹, G. Jennings¹,
M. McFarland⁶, and J. Spooner¹

¹NC State University, ²Ice.Nine Environmental Consulting,
³Colorado State University, ⁴Penn State University,
⁵University of Arkansas, ⁶Texas A&M University

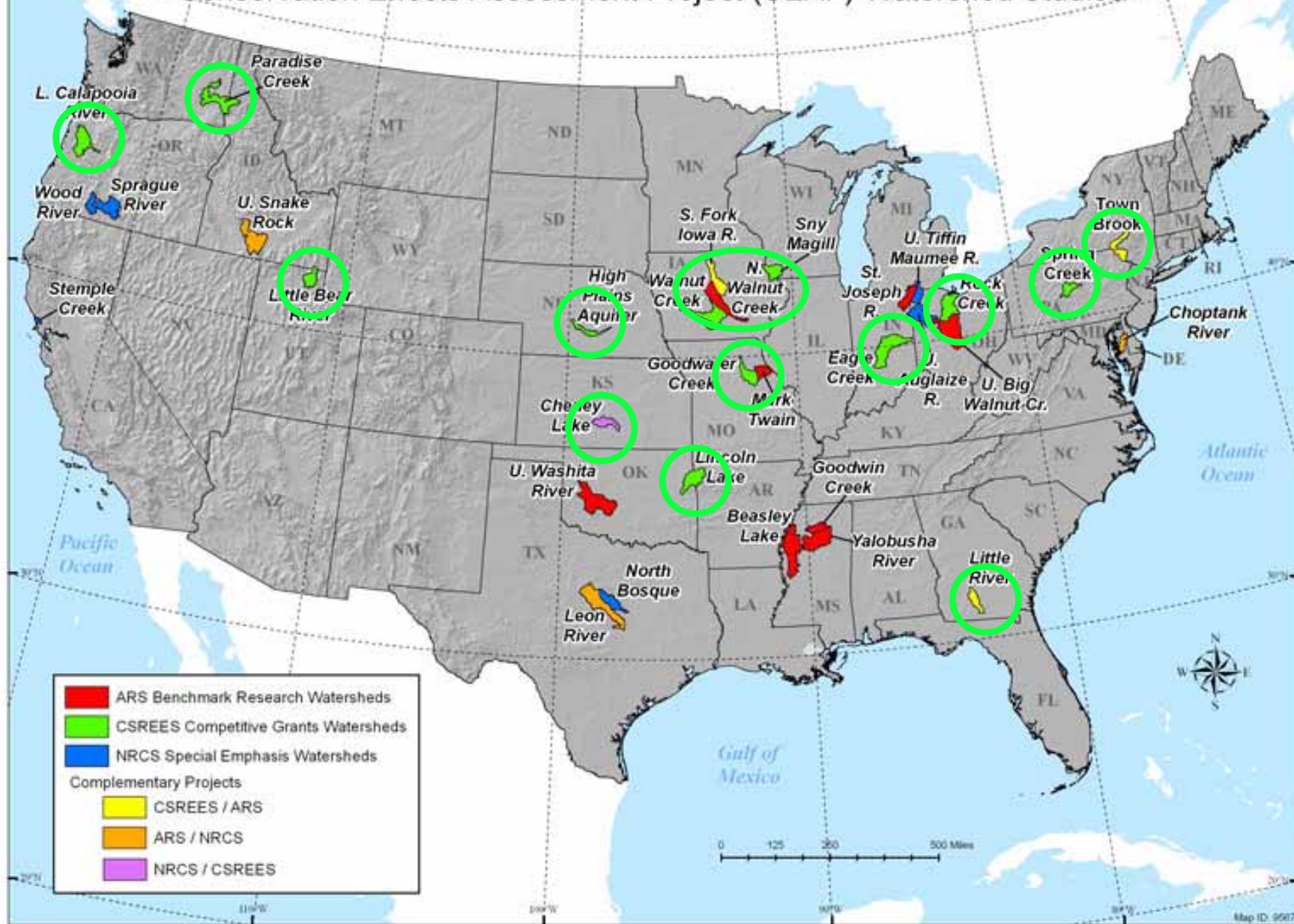


:

NC State Team



Conservation Effects Assessment Project (CEAP) Watershed Studies





Synthesizing and Extending Lessons Learned from the 13 CSREES-CEAP Watershed Projects: Objectives

- Summarize and describe the science-based information and lessons learned from CEAP CSREES projects
- Deliver knowledge to policy makers within key organizations





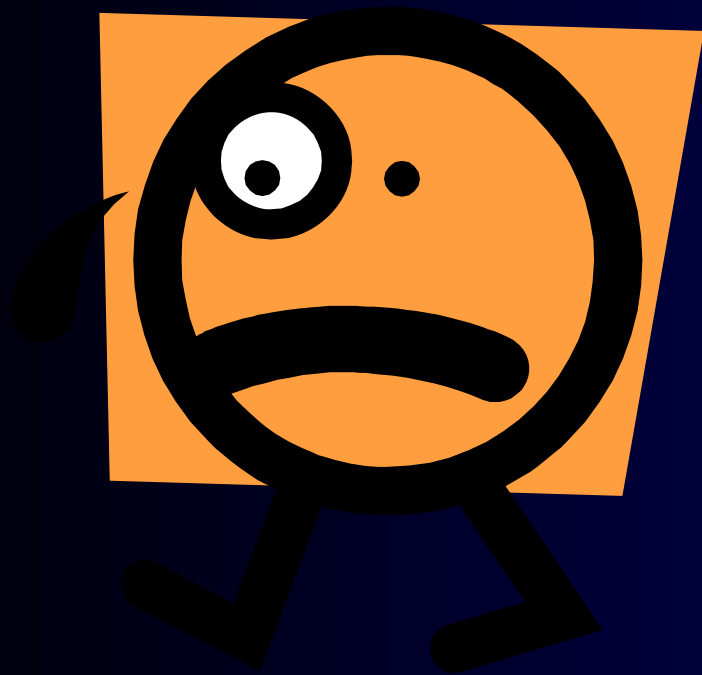
Develop Framework: Method

- Reviewed approaches and structures from previous agricultural watershed projects
- Developed preliminary framework (template):
 - Watershed Characterization
 - Water Quality Data
 - Land Treatment Information
 - Modeling and Economic Analysis
 - Water Quality Response
 - Outreach and Socio-economic Analysis
 - Project Management, Evaluation and Reporting

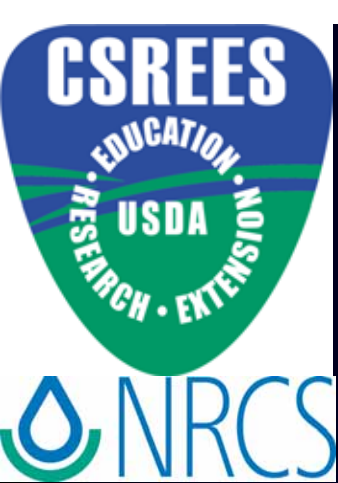
Collect Information

- Framework or template
 - Compile information prior to site visit
 - Site visit: four person team
 - Project overview
 - Watershed tour
 - Discussions by topics
 - Template information reviewed by CSREES-CEAP project personnel
 - Finalize information from template as a chapter for the final report
- Key informant interviews

Making Sense of the Information



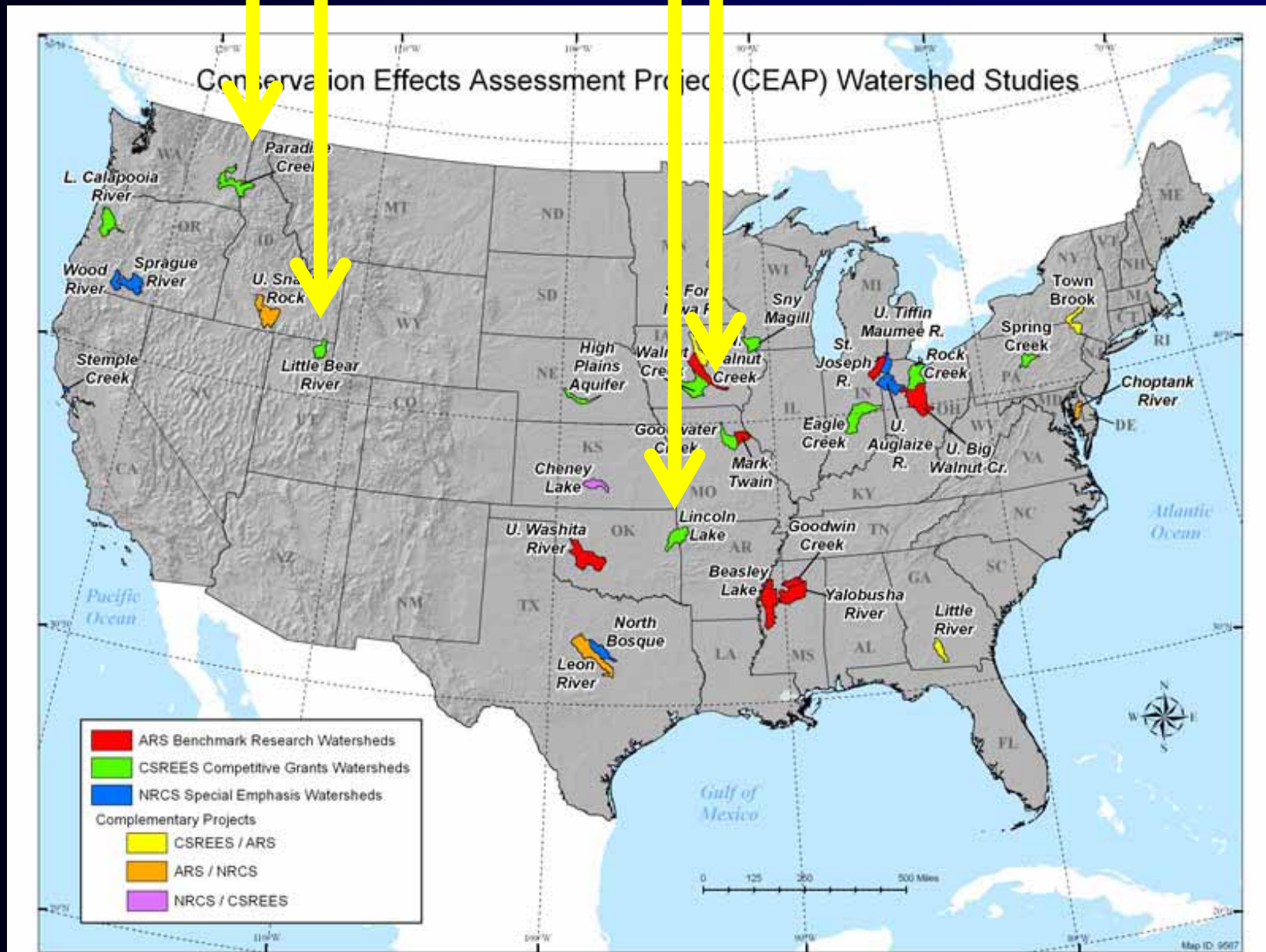
- Current information only provides initial findings
- Synthesis begins with all projects



Synthesizing and Extending Lessons Learned from the 13 CSREES-CEAP Watershed Projects: Outreach

- Conferences
- Newsletters
- Promotional brochures
- Reports to Committee for Shared Leadership (CSREES) and CEAP Steering Committee
- Final Report
- Fact sheets (web versions)
- Power point presentations to commodity groups/others
- Special edition of Soil and Water Conservation Journal

CSREES CEAP Project Site Visits: 2008



Thank You to CSREES-CEAP Team Members

State	Water Resource	Pollutant of Concern	Source of Pollutant
Arkansas	Moores Creek, Beatty Branch, Lincoln Lake	Phosphorus	Animal Operations
Idaho	Paradise Creek	Sediment	Crop Land
Iowa	Walnut Creek	Nitrogen	Crop Land
Utah	Little Bear River	Phosphorus	Crop Land, Animal Operations



Synthesizing and Extending Lessons Learned from the 13 CSREES-CEAP Watershed Projects: **Initial Findings**



Initial Findings: Water Quality Monitoring



- Water quality monitoring design
- Watershed characterization
- Monitoring spatial variation
- Climatic variation
- Lag time

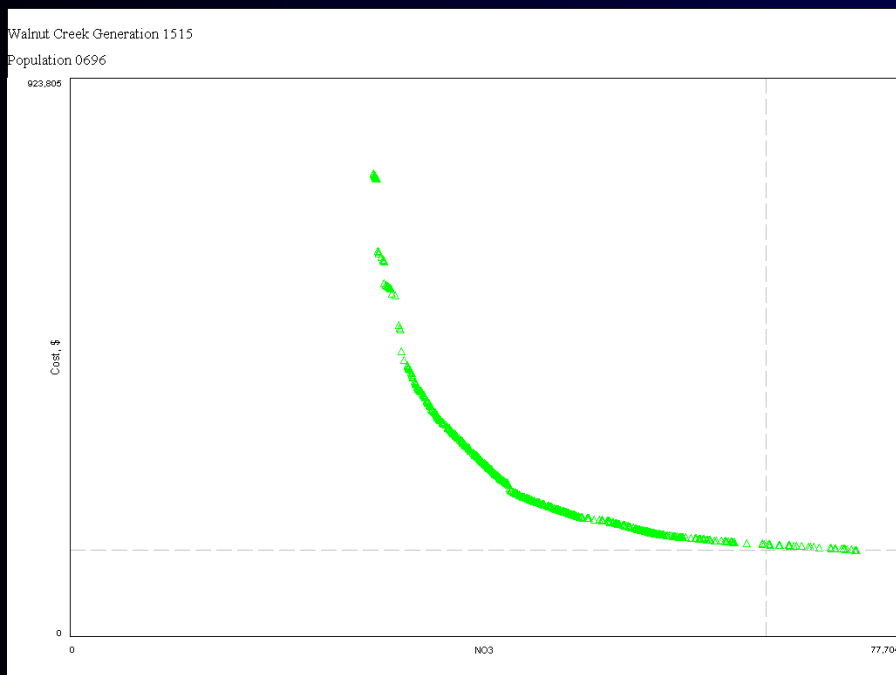
Initial Findings: Land Treatment



Deanna Osmond, 2008

- Pollutant source identification
- Conservation practice targeting
- Land treatment and unintended consequences
- Management vs structural practices
- Land treatment data collection

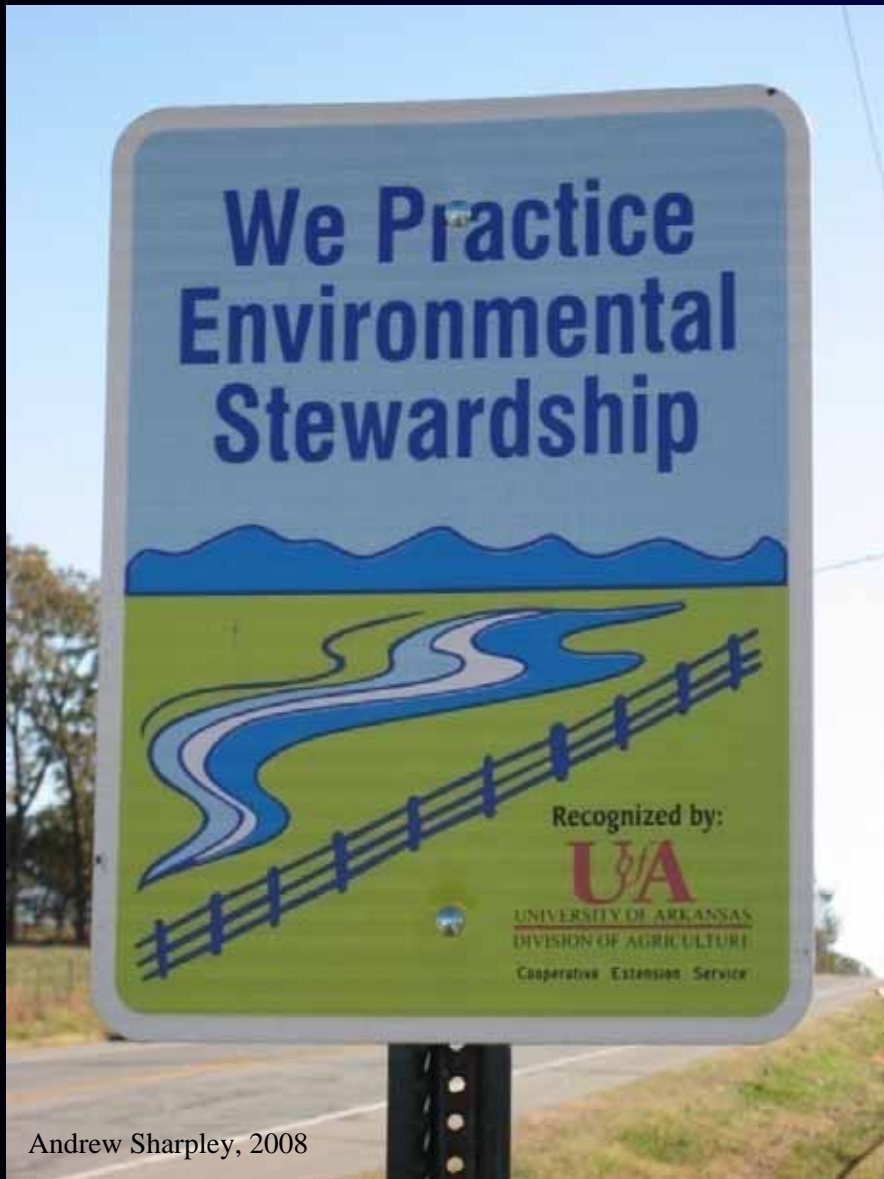
Initial Findings: Modeling



- Modeling tool limitations
- Water quality data shortages
- Spatial and temporal scales of land use and water quality data

Graph by Robotyyagov, Campbell, Jha, Schilling, Wolfer, Gassman, and Kling.
Presentaion: Efficient Placement of Conservation Practices in the Walnut And Squaw Creek Watersheds. 2008

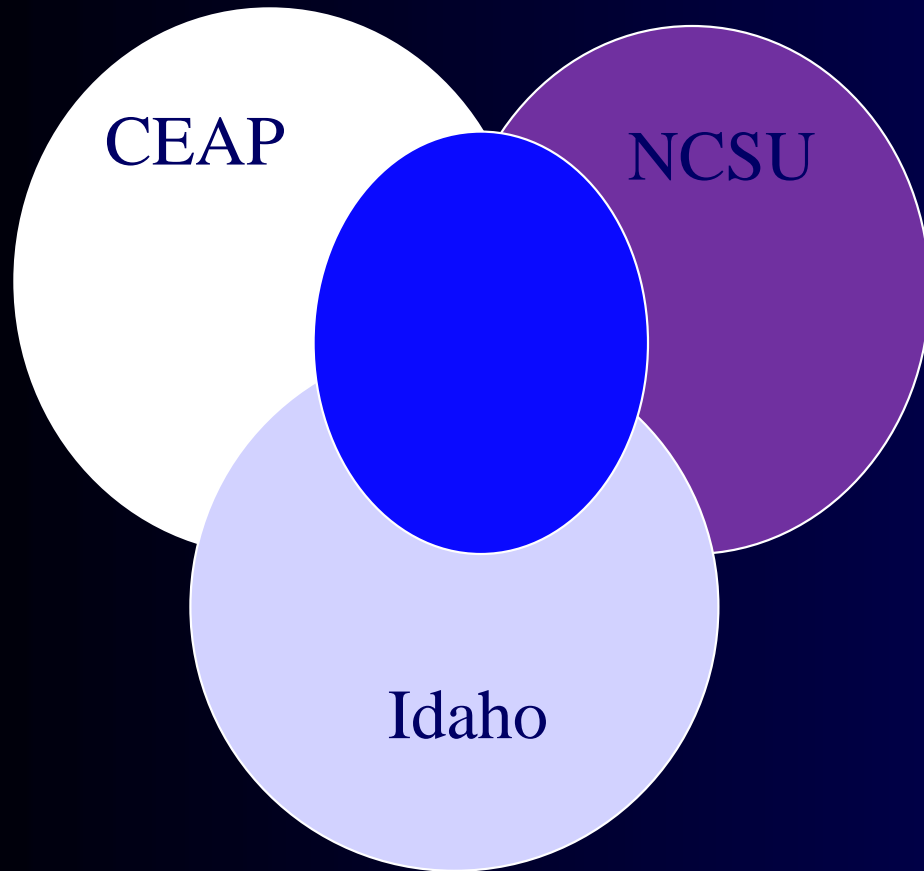
Initial Findings: Outreach



Andrew Sharpley, 2008

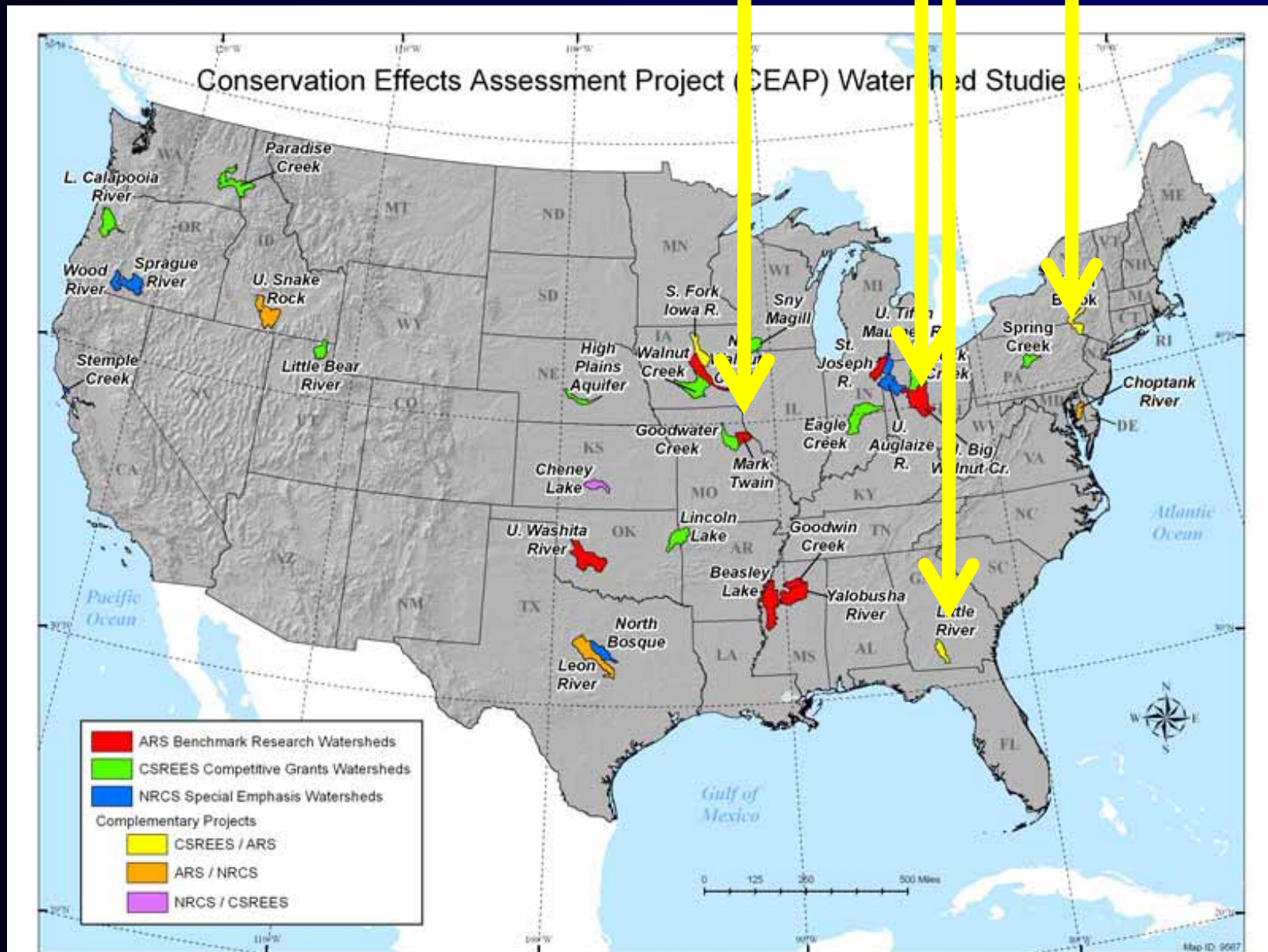
- Importance of partnerships
- Adequate funding of all partners
- Cost-share
- One-to-one contact

Initial Findings: Project Management



- Complex projects
- Broad skill sets
- Committed teams

CSREES CEAP Project Site Visits: 2009



The CEAP Synthesis Project

Thanks for the Funding and
all CSREES-CEAP
Personnel

