Conservation Effects Assessment Project (CEAP)
Cheney Lake Watershed, Kansas: 2004-2006

Approach
Water sampling: Sediment, nutrients
Watershed models: AnnAGNPS (Annualized Agricultural Non-Point Source)
Water quality monitoring: Solventone U.S. Geological Survey project (1996-2000) at five locations will be used to calibrate and validate AnnAGNPS.

Communicating Results
2004 annual progress report (published): focused on impacts of water, sediment, and agricultural chemicals with and without CRP and EQIP practices.
2005 progress report will examine effects of ephemeral gully development and atrazine management.
2006 progress report will study effects of livestock feedlots and improvement management of center pivot irrigation.

Collaborators
- U.S. Department of Agriculture
- U.S. Geological Survey
- U.S. Environmental Protection Agency
- U.S. Bureau of Reclamation
- County Conservation Districts for Reno, Stafford, Pratt, and Kingman
- Cheney Lake Watershed, Inc.

Contact
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NRCS State Conservationist Harold L. Klaege

CEAP Assessment
Evaluate downstream effects of current Conservation Reserve Program (CRP) and Environmental Quality Incentives Program (EQIP) practices.

Watershed Description
Drains into Cheney reservoir which provides the city of Wichita with 70% of its daily water supply for more than 400,000 residents.
- 630,000 acres
- 58% cropland and 25% rangeland
- Cheney reservoir is designated a high priority impaired water body under the Clean Water Act.

Issues:
Phosphates and sediment pollute the reservoir.

Timeline
- 2003 Initial funding
- 2004 August CEAP bibliographies
- 2005 May Wetlands peer review
- 2005 July Wildlife literature review (program-based)
- 2005 October Cropland literature reviews
- 2005 Wildlife literature reviews (practice-based)
- 2005 Wildlife Work Plan
- 2006 February Prairie Potholes wetland region
- 2006 March Preliminary National Assessment Report
- 2006 November Wetlands Work Plan
- 2006 December Draft findings—Prairie Potholes region
- 2007 Fall National Assessment Final Report
- 2007 Special Emphasis Watershed reports

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References
Natural Resources Conservation Service

www.nrcs.usda.gov/technical/nri/ceap/