

CEAP RELEVANT RESEARCH WATERSHED STUDY

Name of Project Integrated Assessment of the Sources and Impacts of Nutrients Derived from Agricultural Land-Use Practices in the Fort Cobb Watershed, Oklahoma	Location (State, River, HUC) Fort Cobb Reservoir, Oklahoma
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Purpose of Project (Goals and Objectives) Conduct a two-year integrated science assessment on the sources and impacts of nutrients derived from agricultural land-use practices in the Fort Cobb Watershed to support other state and federal agencies working in the basin. In addition to a USGS report describing the results of the newer data, information will be contained and distributed in a digital data atlas of the Fort Cobb Reservoir.	
Description of Project (Landscape, Models, Practices) <ul style="list-style-type: none">• Compile existing information regarding the source, fate, and effects of nutrients in the water resources in the Fort Cobb Watershed.• Compile various GIS layers including those from the USDA-Agricultural Research Service that will aid in spatial analysis.• Collect precipitation samples and analyze for nutrients. Measure stream flow in three major tributaries of the Fort Cobb Reservoir.• Collect additional water-quality and biological data regarding the trophic status of the Fort Cobb Reservoir.• Combine biological data from the reservoir with contemporaneous spectral imagery to map phytoplankton in the reservoir.• Map riparian and agricultural land cover in the Fort Cobb Watershed.• Assess the influence of various physical, chemical, and biological factors that influence current (2005) eutrophic reservoir condition.	