

Kansas Reservoir Sustainability

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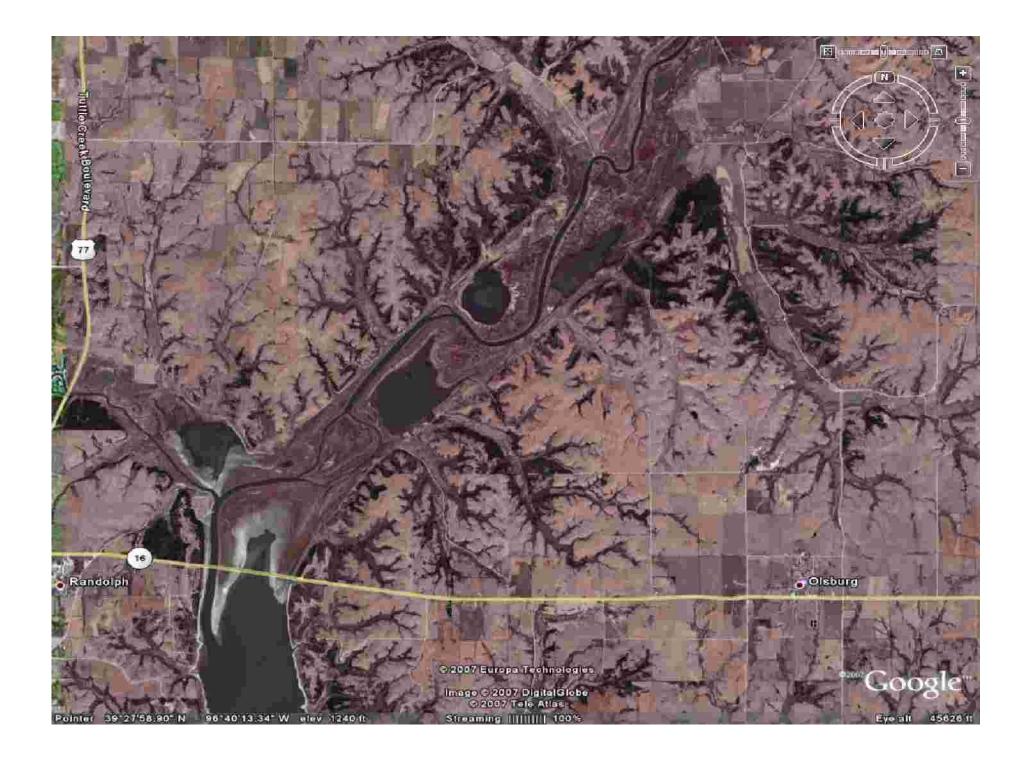
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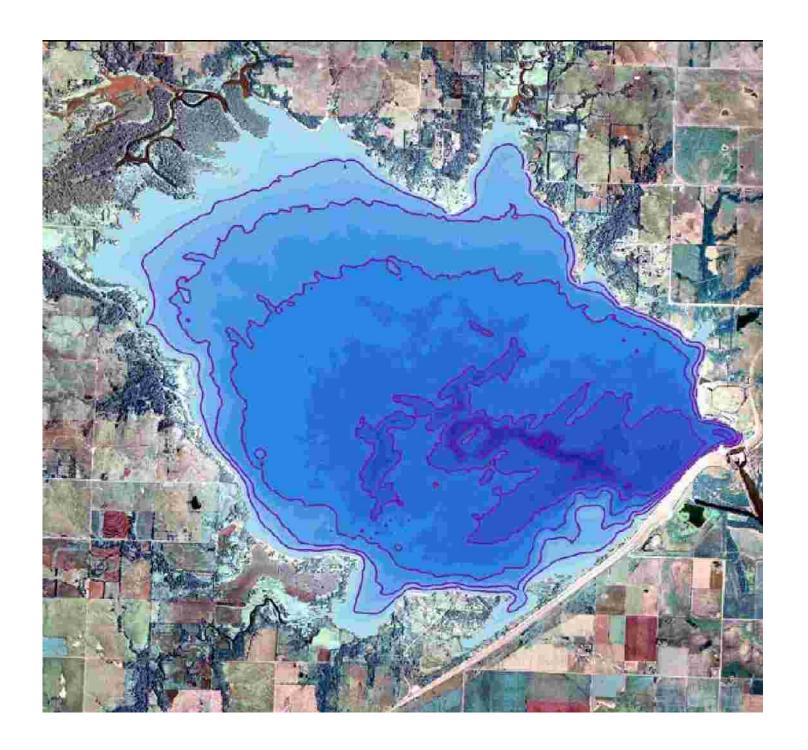
- Issues:

- Many Kansas reservoirs are filling with sediment faster than anticipated as there will be increased reliance on these reservoirs for public water supply.
- Declining storage capacities reduce flood control, water supply recreational value, economic growth and increased water treatment costs.



Kansas Reservoir Assessment

- Kansas Reservoir Sustainment Initiative
- Assess 24 federal reservoirs (22 provide water supply for more than half of the state population)
- Applied Science and Technology for Reservoir
 Assessment (ASTRA) Kansas Biological Survey
 - Acoustic echosounding (Bathymetry)
 - Sediment coring



Solutions?

- Watershed Protection
 - Land Treatment and other BMP's
- Lake Renovation/Restoration
 - Dredging (restoring lost storage)
 - Structural
- Reservoir Replacement (limited)
- Streambank Stabilization and Protection

Research Needs

- Kansas Water Resources Institute:
 - Bathymetric mapping and coring
 - Identify sediment sources
 - Evaluation of erosion control BMP's
 - Develop targeting methods

Kansas Conservation Commission Assistance

- Soil erosion reduction practices cost share
- Targeted Streambank Stabilization cost-share
- Water Supply Restoration Program (Dredging)



For more information:

- Kansas Biological Survey Applied Science and Technology for Reservoir Assessment (ASTRA) www.kbs.ku.edu
- Kansas Water Office Reservoir Sustainment Initiative www.kwo.org

Kansas Conservation Commission www.scc.ks.gov

Reservoir Sustainability: Questions for Other States

- Have you identified this as a problem in your state?
- What steps are you taking to address the issue?
- What are your conservation agencies doing to assist?